

**SHIKSHA NIKETAN SENIOR SECONDARY SCHOOL
JEEVAN NAGAR, JAMMU**

**12TH CLASS (SCIENCE STREAM)
SESSION 2025-26**

SUBJECT: ENGLISH

CYCLE TEST 1 (15th May 2025) **M.M:20**

Chapter: The Third Level
The Last Lesson

Poem: My Mother at Sixty-Six

Writing Skills: Advertisement

CYCLE TEST 2 (After summer Vacation) **M.M: 20**

Chapter: The Tiger King
Lost spring

Poem: Keeping Quiet

Writing Skills: Invitations

Job Application

GOLDEN EXAM (18th September 2025) **M.M: 80**

Syllabus of Cycle Test 1 & 2

Chapter: Deep Water
Journey to the End of the Earth
The Rat trap
Indigo
On the face of it (Play)

Poem: A Thing of Beauty

Reading Comprehensions: Unseen Passage, Note-making

Writing Skills: Advertisement
Invitation & replies
Letter

Article writing

Job application

Speech, Debate, Narratives

Grammar: Articles, Prepositions, punctuation, Tenses

CYCLE TEST 3 (24th October 2025) **M.M: 20**

Chapter: The Enemy (vistas)
Indigo

Poets and Pancakes

Poem: A Roadside stand

Grammar: Modals, Conjunction

Writing Skill: Job application and Formal letter

PRE BOARD I (15th November 2025) **M.M: 80**

Chapter: The Interview

Going Places

Memories of child hood (vistas)

Poems: Aunt Jennefer's Tigers

Grammar: All

Writing Skill: All

Syllabus of Golden test and Cycle test 3rd

PRE BOARD II (after winter vacations) **M.M: 80**

All Syllabus

SUBJECT: MATHEMATICS

CYCLE TEST 1 (15th May 2025) **M.M. 20**

Chapter 3 Matrices

CYCLE TEST 2 (After summer Vacation) **M.M. 20**

Chapter 4 Determinants

Chapter 2 Inverse Trigonometric functions

GOLDEN EXAM (18th September 2025) **M.M. 80**

Syllabus of Cycle Test 1 & 2

Chapter 1 Relations & functions

Chapter 5 Continuity & differentiability

Chapter 6 Application of derivatives

CYCLE TEST 3 (24th October 2025) **M.M. 20**

Integrations upto Definite Integrals

PRE BOARD – I (15th November 2025) **M.M. 80**

Golden Exam Syllabus +

Integrations (Integrals)

Application of Integrals

Differential equations

Vector Algebra

Three Dimensional Geometry

PRE BOARD II (after winter vacations) **M.M: 80**

All Syllabus

SUBJECT: PHYSICS

CYCLE TEST 1 (15th May 2025) **M.M. 20**

Electrostatics

CYCLE TEST 2 (After summer Vacation) **M.M. 20**

Current Electricity

GOLDEN EXAM (18th September 2025) **M.M. 70**

Electrostatics (25)

Current Electricity (20)

Magnetic effects of current (25)

CYCLE TEST 3 (24th October 2025) **M.M. 20**

Magnetism

E.M.I and A.C.

PRE BOARD – I	(15th November 2025) Electrostatics (10) Current Electricity (8) Magnetic effects of current and Magnetism (10) E.M.I and A.C. (7) E.M Waves (5) Ray Optics (14)	M.M. 70	PRE BOARD – I	(15th November 2025) Sexual Reproduction in the flowering plants Human Reproduction Reproductive Health Principles of Inheritance and Variations Molecular Basis of Inheritance Evolution Biotechnology: Principles Biotechnology And its Applications Microbes in Human Welfare	M.M. 70
PRE BOARD – II	(after winter vacations) Full Syllabus (As per Board)	M.M. 70	PRE BOARD II	(after winter vacations)	M.M: 70
SUBJECT: CHEMISTRY			SUBJECT: ENVIRONMENT SCIENCE		
CYCLE TEST 1	(15th May 2025)	M.M. 20	CYCLE TEST 1	(15th May 2025)	M.M. 20
Unit I	Solutions		Chapter 1	Air and Noise Pollution	
CYCLE TEST 2	(After summer Vacation)	M.M. 20	CYCLE TEST 2	(After summer Vacation)	M.M. 20
Unit I	Solutions		Chapter 2	Water Pollution	
Unit II	Electrochemistry		GOLDEN EXAM	(18th September 2025)	M.M. 70
GOLDEN EXAM	(18th September 2025)	M.M. 70	Chapter 1	Air and Noise Pollution	
Unit I	Solutions		Chapter 2	Water Pollution	
Unit II	Electrochemistry		Chapter 3	Soil Degradation	
Unit III	Chemical Kinetics		Chapter 4	Solid and Hazardous Waste Management	
Unit IV	d & f – block elements		CYCLE TEST 3	(24th October 2025)	M.M. 20
Unit V	Coordination Chemistry		Chapter 5	Biodiversity Management	
CYCLE TEST 3	(24th October 2025)	M.M. 20	PRE BOARD – I	(15th November 2025)	M.M. 70
Unit VI	Haloalkanes & Haloarenes		Complete Syllabus upto 3 rd cycle test +		
PRE BOARD – I	(15th November 2025)	M.M. 70	Chapter 6	Global Environmental Issues	
Unit VII	Alcohol, Phenol & Ethers		PRE BOARD II	(after winter vacations)	M.M: 70
Unit IX	Amines		Whole syllabus of 12 th EVS		
And the syllabus upto 3 rd cycle test			SUBJECT: PHYSICAL EDUCATION		
PRE BOARD –II	(after winter vacations)	M.M. 70	CYCLE TEST 1	(15th May 2025)	M.M. 20
Full Syllabus			Chapter 1	Physical Fitness	
SUBJECT: BIOLOGY			Chapter 2	Meaning of Training and sports training, warming up and cooling down	
CYCLE TEST 1	(15th May 2025)	M.M. 20	CYCLE TEST 2	(After summer Vacation)	M.M. 20
Chapter I	Sexual Reproduction in the flowering plants		Chapter 2	Training Methods	
CYCLE TEST 2	(After summer Vacation)	M.M. 20	Chapter 3	Sociology Aspects of Physical Education	
Chapter II	Human Reproduction		GOLDEN EXAM	(18th September 2025)	M.M. 70
Chapter III	Reproductive Health		Chapter 1	Physical Fitness	
GOLDEN EXAM	(18th September 2025)	M.M. 70	Chapter 2	Training Methods	
Chapter I	Sexual Reproduction in the flowering plants		Chapter 3	Sociology Aspects of Physical Education	
Chapter II	Human Reproduction		Chapter 4	Moral Education	
Chapter III	Reproductive Health		CYCLE TEST 3	(24th October 2025)	M.M. 20
Chapter IV	Principles of Inheritance and Variations		Chapter 5	Sports and Environment	
Chapter V	Molecular Basis of Inheritance				
Chapter VI	Microbes in Human Welfare				
CYCLE TEST 3	(24th October 2025)	M.M. 20			
Chapter	Evolution				

Chapter 6	Yoga	
Chapter 8	Sports Medicine First Aid and Rehabilitation	
PRE BOARD – I	(15th November 2025)	M.M. 70
Cycle 1 + Cycle 2 + Cycle 3 + Golden Exam.		
Chapter 7	Concept of major Games/Sports	
PRE BOARD II	(after winter vacations)	M.M: 70
Cycle 1 + Cycle 2 + Cycle 3 + Golden Exam + Pre board 1		
Chapter 8	Sports Medicine First Aid and Rehabilitation	
SUBJECT: COMPUTER SCIENCE		
CYCLE TEST 1	(15th May 2025)	M.M. 20
Conditional statements in Python		
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Boolean Logic		
GOLDEN EXAM	(18th September 2025)	M.M. 70
Syllabus of Cycle Test 1 + Cycle Test 2		
Functions		
Oops		
CYCLE TEST 3	(24th October 2025)	M.M. 20
Database & SQL		
PRE BOARD – I	(15th November 2025)	M.M. 70
Syllabus of Cycle Test 1 + Cycle Test 2 + Golden Exam + Cycle Test 3		
Data Structures		
PRE BOARD – II	(after winter vacations)	M.M. 70
Cycle Test 1 + Cycle Test 2 + Golden Exam + Cycle Test 3 + Pre-board -1		
Data Structures		
Networking		
Complete Syllabus		
SUBJECT: PSYCHOLOGY		
CYCLE TEST 1	(15th May 2025)	M.M. 20
Chapter 1	Intelligence and aptitude	
Chapter 2	Self	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Chapter 3	Personality	
Chapter 4	meeting life challenges	
GOLDEN EXAM	(18th September 2025)	M.M. 70
Syllabus of Cycle Test 1 + Cycle Test 2 + Chapter 5		
CYCLE TEST 3	(24th October 2025)	M.M. 20
Chapter 6	Attitude and social cognitive	
Chapter 7	Group processes and social Influences	
PRE BOARD – I	(15th November 2025)	M.M. 70
Cycle 1 + Cycle 2 + Cycle 3 + Golden Exam.		
Chapter	Statistics	
PRE BOARD II	(after winter vacations)	M.M: 70
Cycle 1 + Cycle 2 + Cycle 3 + Golden Exam + Pre board 1		

Subject: English		M.M: 100
S.NO.	CHAPTERS	
1	Discussion of Syllabus	
2	Introduction of the Chapter “The Last Lesson”	
3	Explanation of the Chapter “The Last Lesson”	
4	Discussion of Q/Answer of Chapter “The Last Lesson”	
5	Worksheet of “The Last Lesson”	
6	Introduction of Poem “My Mother at Sixty – Six”	
7	Explanation of the Poem and Discussion of Q/Answer with ‘Poetic Devices’ “My Mother at Sixty – Six”	
8	Worksheet of “My Mother at Sixty – Six”	
9	Introduction of the Chapter “Lost Spring”	
10	Explanation of the Chapter “Lost Spring”	
11	Discussion of Q/Answer of Chapter “Lost Spring”	
12	Worksheet of “Lost Spring”	
13	Introduction of the Chapter “Deep Water”.	
14	Explanation of the Chapter “Deep Water”	
15	Explanation of the Chapter “Deep Water”	
16	Discussion of Q/Answer “ Deep Water”	
17	Worksheet of “Deep Water”	
18	Introduction and Explanation of Poem ‘Keeping Quiet’	
19	Discussion of Q/Answer of Poem ‘Keeping Quiet’	
20	Worksheet of “Keeping Quiet”	
21	Introduction of the chapter ‘The Rattrap’	
22	Explanation of the chapter ‘The Rattrap’	
23	Explanation of the chapter ‘The Rattrap’	
24	Discussion of Q/Answer of the chapter ‘The Rattrap’	
25	Worksheet of ‘ The Rattrap’	
26	Introduction and Explanation of Poem ‘A Thing of Beauty’	
27	Discussion of Q/Answer of the Poem ‘A Thing of Beauty’	
28	Worksheet of ‘A Thing of Beauty’	
29	Introduction of the chapter ‘Indigo’	
30	Explanation of the chapter ‘Indigo’	
31	Explanation of the chapter ‘Indigo’	
32	Discussion of Q/Answer of the chapter ‘Indigo’	
33	Worksheet of ‘Indigo’	
34	Introduction of the Poem ‘A Roadside stand’ with ‘Poetic Devices’	
35	Explanation of the Poem ‘A Roadside stand’ with Poetic Devices	
36	Discussion of Q/Answer	
37	Worksheet of A Roadside stand	
38	Introduction of the Chapter ‘Poets and Pancakes’	
39	Explanation of the Chapter ‘Poets and Pancakes’	
40	Explanation of the Chapter ‘Poets and Pancakes’	

41	Explanation of the Chapter ‘Poets and Pancakes’
42	Discussion of Q/Answer
43	Worksheet of Poet and Pancakes
44	Introduction of the Chapter ‘The Interview’ (Part I-II)
45	Explanation of the chapter ‘The Interview’(Part- I)
46	Explanation of the chapter ‘The Interview’(Part- II)
47	Discussion of Q/Answer
48	Worksheet of ‘The Interview’
49	Introduction of the Poem ‘Aunt Jennifer’s Tigers’
50	Explanation and Discussion of Q/Answer of ‘Aunt Jennifer’s Tigers’
51	Introduction of the Chapter ‘Going Places’
52	Explanation of the Chapter ‘Going Places’
53	Explanation of the Chapter ‘Going Places’
54	Discussion of Q/Answer
55	Worksheet of Going Places
56	Introduction of the Chapter ‘The Third Level’
57	Explanation of the Chapter ‘The Third Level’
58	Discussion of Q/Answer
59	Worksheet of ‘The Third Level’
60	Introduction of the Chapter ‘The Tiger King’
61	Explanation of the Chapter ‘The Tiger King’
62	Explanation of the Chapter ‘The Tiger King’
63	Discussion of Q/Answer
64	Worksheet of ‘The Tiger King’
65	Introduction of the Chapter ‘Journey to the End of the Earth’
66	Explanation of the Chapter
67	Explanation of the Chapter and Discussion of Q/Answer
68	Worksheet of the Chapter
69	Introduction of the Chapter ‘The Enemy’
70	Explanation of the Chapter
71	Explanation of the Chapter
72	Explanation of the Chapter
73	Explanation of the Chapter
74	Explanation of the Chapter
75	Discussion of Q/Answer
76	Worksheet of the Chapter
77	Introduction of the Play ‘On the face of it’
78	Explanation of the Play
79	Explanation of the Play
80	Explanation of the Play
81	Discussion of Q/Answer
82	Worksheet of the Chapter
83	Introduction of the Chapter ‘Memories of Childhood’
84	Explanation of the Chapter ‘Memories of Childhood’

85	Discussion of Q/Answer
86	Worksheet of the Chapter
	WRITING SKILLS
87	Note making Explanation and format
88	Note making Practice
89	Advertisement format
90	Practice of advertisement
91	Invitation and Replies format
92	Practice of Invitation and Replies
93	Format of Letter Writing
94	Practice of Letter Writing
95	Format of Job Application
96	Practice of Job Application
97	Format of Article Writing
98	Practice of Article Writing
99	Format of Debate Writing
100	Practice of Debate Writing
101	Format of Speech Writing
102	Practice of Speech Writing
103	Format of Narrative Writing
104	Practice of Narrative Writing
	GRAMMAR
105	Tenses Explanation and usage
106	Tenses Explanation and usage
107	Tenses Explanation and usage
108	Tenses Explanation and usage (Practice)
109	Reflexive Pronouns Explanation and usage
110	Practice of Reflexive Pronouns
111	Narration Explanation and usage
112	Narration Explanation and usage
113	Narration Explanation and usage
114	Practice of Narration
115	Conjunction Explanation and usage
116	Practice of Conjunction
117	Preposition Explanation and usage
118	Preposition Explanation and usage
119	Practice of Preposition
120	Change of voice Explanation and usage
121	Change of voice Explanation and usage
122	Practice of Change of Voice

SUBJECT: PHYSICS

CHAPTER 1:- ELECTROSTATICS	
L – 1	Charges, Properties of Charge, quantization of Charging
L – 2	Coulomb's Law and superposition principle, numericals, dielectric constant and relative permittivity
L – 3	Continuous charge distribution, electric field, electric field due to a point charge
L – 4	Electric field lines and its properties, introduction to electric dipole and dipole moment.
L – 5	Electric Field Intensity due to electric dipole at (1) axial line (2) equatorial line
L – 6	Torque acting on a dipole placed in uniform electric field, electric flux
L – 7	Gauss theorem and its proof
L – 8	Application of Gauss theorem to find electric field due to (1) infinitely long charged wire (2) uniformly charged plane sheet.
L – 9	Due to thin spherical shell (inside & outside)
L – 10	Numericals on above topics.
L – 11	Electric potential and potential due to a point charge & concept of potential difference
L – 12	Electric potential due to a dipole (1) at axial line (2) at equatorial line
L – 13	Electric potential due to system of charges (numericals) equipotential surfaces and their properties
L – 14	Electric potential energy & electric potential energy for a system of two charges
L – 15	Potential energy of a dipole placed in electric field. Introduction to conductor, insulator, free & bound charges
L – 16	Dielectric and polarization, introduction to capacitor and capacitance, principle of capacitor.
L – 17	Combination of capacitors in series and parallel.
L – 18	Capacitance of a parallel plate capacitor and numericals.
L – 19	Capacitance of a parallel plate capacitor with dielectric slab.
L – 20	Energy stored in a capacitor and uses of capacitors
L – 21	Numericals on capacitance and above topics.
L – 22	Relation between Electric field and potential.
L-23	Reasoning questions based on potential.
L-24	Reasoning questions based on capacitors
L-25	Previous year questions
CHAPTER 2:- CURRENT ELECTRICITY	
L – 1	Electric Current, units of current
L – 2	Drift Velocity and its relation with electric current
L – 3	Current density, mobility, Ohm's law, VI characteristics (linear and non-linear) electrical conductance
L – 4	Resistance and dependence of resistance, resistivity.
L – 5	Combination of resistances and numericals of above topics.
L – 6	Numericals on circuit solving.

L – 7	Electrical power and energy.
L – 8	Internal resistance, emf and potential difference and relation between them
L – 9	Kirchhoff's rules
L – 10	Numericals on Kirchhoff's rules
L – 11	Wheat Stone Bridge.
L – 12	Numericals on circuit solving
L – 13	Numericals based on internal resistance.
L – 14	Numericals based on factors of resistance
L – 15	Reasoning questions
CHAPTER 3:- MAGNETIC EFFECTS OF CURRENT	
L – 1	Concept of Magnetic Field, Oersted Experiment overview, Biot. Savart's law
L – 2	Application of Biot. Savart's law to find magnetic field due to current carrying circular loop at its Centre.
L – 3	On the axis of circular current carrying loop.
L – 4	Numericals of Biot. Savart's law
L – 5	Ampere circuital law and its application to infinitely long straight wire
L – 6	Straight solenoid (qualitative treatment only), force on a moving charge placed in uniform magnetic and electric field, Lorentz force
L – 7	Force on a current carrying conductor placed in uniform magnetic field
L – 8	Numericals on above topics
L – 9	Force between two current carrying conductors and definition of ampere
L – 10	Torque acting on a current carrying loop placed in a uniform magnetic field
L – 11	current carrying loop as a magnetic dipole and its magnetic dipole moment
L – 12	Moving coil galvanometer , its current sensitivity and voltage sensitivity.
L – 13	Conversion of galvanometer into volt meter and ammeter
L – 14	Numericals of above topics
L – 15	Introduction to bar magnet and bar magnet as an equivalent solenoid (qualitative treatment only) concept of pole strength, magnetic dipole
L – 16	Magnetic Field Intensity due to Bar Magnet(magnetic dipole) (1) along its axis (2) perpendicular to axis(qualitative treatment only)
L – 17	Torque on Magnetic Dipole Placed in Uniform Magnetic Field (qualitative treatment only), magnetic field lines and their properties
L – 18	Important terms used to describe magnetic properties of magnetic materials, magnetization of materials.
L – 19	Para, dia and ferro magnetic materials with examples
L – 20	Numericals and effect of temperature on magnetic properties
L – 21	Important terms related to magnetism
L – 22	Reasoning questions based on galvanometer
L – 23	Reasoning questions based on magnetic effect of current
L---24	Previous year questions of this chapter
CHAPTER 4:- ELECTRO MAGNETIC INDUCTION & ALTERNATING CURRENT	
L – 1	Magnetic flux, Faraday's experiments.
L – 2	Faraday's laws of electromagnetic induction.

L – 3	Lenz's law and its illustrations and consequences with law of conservation of energy.
L – 4	Self-induction.
L – 5	Mutual induction.
L – 6	Alternating current, basic terms.
L – 7	RMS value of alternating current/voltage.
L – 8	Phasor and phasor diagram AC circuit containing resistance only, AC circuit containing capacitor only, AC circuit containing inductor only.
L – 9	LCR circuit, Resonance condition.
L – 10	Power in AC circuit, power factor, watt less current.
L --11	AC generator
L---12	Transformer
L---13	Numericals on EMI
L---14	Numericals on AC circuit
L---15	Previous year questions
CHAPTER 5:- ELECTRO MAGNETIC WAVES	
L – 1	Maxwell Displacement current
L – 2	Modified form of Ampere Circuital Law
L – 3	Electromagnetic waves and its properties, transverse nature(qualitative idea)
L – 4	Electromagnetic Spectrum & uses of electromagnetic waves, including elementary facts.
L--5	Numericals of electromagnetic waves.
CHAPTER 6:- OPTICS (RAY OPTICS)	
L – 1	Reflection of light, laws of reflection, spherical mirror and its uses.
L – 2	Mirror Formula for spherical mirrors.
L – 3	Numericals of mirror formula.
L – 4	Refraction of light, laws of refraction, refractive index.
L – 5	Practical application of refraction (1)relation between real & apparent depth (2) apparent shift of position of sunrise & sunset
L – 6	Total internal reflection, critical angle & necessary conditions for TIR.
L – 7	Application of TIR, optical fibre, sparkling of diamond, mirage formation
L – 8	Numericals on above topics
L – 9	Refraction at spherical surfaces (1) convex surface
L – 10	Refraction at spherical surfaces (2)concave surface
L – 11	Lenses and thin lens formula
L – 12	Lens making formula for convex lens
L---13	Lens making formula for concave lens
L---14	Numericals on above topics
L---15	Magnification, power of a lens, combination of thin lenses in contact.
L---16	Refraction of light through a prism and calculation of the angle of minimum deviation
L-17	Optical instruments – simple microscope
L-18	Compound microscope and its magnifying power
L-19	Astronomical telescope and its magnifying power (reflecting & refracting)

L-20	Numerical based on optical devices
L-21	Reasoning questions on ray optics
Wave Optics	
L – 1	Huygen's Principle, Wave front.
L – 2	Reflection & Refraction on the basis of Huygen's theory
L – 3	Principle of superposition of waves, interference and YDSE.
L – 4	Condition for constructive and destructive interference
L – 5	Expression for Fringe Width (no derivation, final expression only) Coherent sources, conditions for sustained interference, intensity distribution curve.
L – 6	Diffraction of light, diffraction at single slit
L – 7	Width of Central Maxima (qualitative treatment only)
L – 8	Numericals of above topics
L – 9	Sustained interference, conditions for coherent sources
CHAPTER 7:- DUAL NATURE OF MATTER AND RADIATION.	
L – 1	Electron emission & its types, work function & Dual Nature of Radiation.
L – 2	Hertz and Lenard's Observation. Photo Electric Effect.
L – 3	Experimental study of photo Electric Effect.
L – 4	Laws of photo electric emission.
L – 5	Einstein Photo electric equation and numerical.
L – 6	Matter waves, wave's nature of particles (De- Broglie equation).
L---7	De Broglie wavelength of an electron accelerated by a potential difference v.
L---8	Numericals of dual nature of matter and radiation.
CHAPTER 8:- ATOMS.	
L – 1	Rutherford Alpha Scattering experiment and significance of result.
L – 2	Calculation of distance of closest approach and impact perimeter.
L – 3	Rutherford model of atom and its limitations
L – 4	Bohr model of an atom
L – 5	Calculation of radius and speed of an electron for hydrogen atom in nth orbit.
L – 6	Energy of an electron in nth orbit.
L – 7	Spectral series of Hydrogen atom and energy level diagram (qualitative treatment only)
L – 8	Numericals on the above topic.
L – 9	Previous year questions.
#NUCLEI	
L---1	Nuclei constituents, size and density of nucleus.
L---2	Nuclear force and its properties.
L---3	Mass energy relationship and mass defect, binding energy, expression for binding energy.
L---4	Binding energy per nucleon curve and its significance.
L---5	Nuclear fission and fusion.
L--6	Previous year questions.
CHAPTER 9:- SEMICONDUCTOR DEVICES	
L – 1	Classification of Conductor, insulator and semi-conductor on the basis of band

	theory and idea of energy bands in solids.
L – 2	Intrinsic and extrinsic Semiconductors, P-type and N-type Semiconductors
L – 3	P-N Junction Diode and biasing of P-N Junction diode
L – 4	I-V Characteristics of P-N junction diode in forward bias and reverse bias.
L – 5	Diode as a half wave and full wave rectifier.
L – 6	Conceptual questions of this chapter
L – 7	Previous year questions.

SUBJECT: CHEMISTRY

M.M: 100

Total Lectures: 135

Theory: 70 Marks

Practical: Internal – 10 Marks

External – 20 Marks

UNIT 1	SOLUTIONS	16 lectures
	<ul style="list-style-type: none"> Classification of solutions, All terms related to concentration of solutions with NCERT numericals 	3
	<ul style="list-style-type: none"> Solubility of Solid in liquid, Gas in Liquid 	2
	<ul style="list-style-type: none"> Henry's law with application & limitations & intext questions. 	2
	<ul style="list-style-type: none"> Vapour pressure, Raoult's law for volatile & Non-Volatile solute. 	1
	<ul style="list-style-type: none"> Ideal & non-ideal solution Azeotropes. 	1
	<ul style="list-style-type: none"> Colligative properties: <ul style="list-style-type: none"> i) Relative lowering in Vapour pressure ii) Elevation in Boiling point iii) Depression in freezing point. iv) Osmosis & Osmotic pressure (Hypertonic, hypotonic & isotonic solutions, reverse osmosis, Barkley & Hartley method) 	4
	<ul style="list-style-type: none"> Abnormal molecular masses, Vanthoff's factor & intext questions 	1
	<ul style="list-style-type: none"> Degree of Association & Degree of dissociation 	1
	<ul style="list-style-type: none"> NCERT Exercise 	1
	Home assignment: Numericals on cone terms & colligative properties	
UNIT 2	ELECTROCHEMISTRY	16 lectures
	<ul style="list-style-type: none"> Electrolysis with mechanism & example 	2
	<ul style="list-style-type: none"> Faraday's Law 	1
	<ul style="list-style-type: none"> Factors affecting conductance. Ohm's Law – definitions, conductivity resistance, resistivity. Molar conductivity, equivalent conductivity. 	1
	<ul style="list-style-type: none"> Experimental measurement of conductance, variation of conductance, variation of conductance with concentration. 	1
	<ul style="list-style-type: none"> Kohlrausch's Law & applications 	1
	<ul style="list-style-type: none"> Applications of Kohlrausch's Law 	1
	<ul style="list-style-type: none"> Galvanic cell & electrode potential & intext questions. 	2

	<ul style="list-style-type: none"> Electrochemical series & numerical on EMF of cell, Gibbi's energy & EMF of cell. 	1
	<ul style="list-style-type: none"> Nernst equation & numerical 	1
	<ul style="list-style-type: none"> Primary cells (Mercury & dry cell) 	2
	<ul style="list-style-type: none"> Secondary cell & fuel cell 	2
	<ul style="list-style-type: none"> Corrosion & NCERT exercise 	1
	Home assignment on basis of numericals of Faraday's & Kohlrausch's Law.	
UNIT 3	CHEMICAL KINETICS	10 Lectures
	<ul style="list-style-type: none"> Introduction – Types of Rate of Reaction. Factors affecting rate of reaction. 	1
	<ul style="list-style-type: none"> Expressing rate of reaction. 	1
	<ul style="list-style-type: none"> Rate law expression & order of reaction & intext questions 	1
	<ul style="list-style-type: none"> Integrated rate equation for zero order reaction. & half-life period. 	2
	<ul style="list-style-type: none"> Integrated rate eqn for 1st order rxn & its half-life period. 	1
	<ul style="list-style-type: none"> Molecularity of reaction & activation energy, pseudo first order rxn & photochemical reaction. 	1
	<ul style="list-style-type: none"> Arrhenius eqn & collision theory. 	2
	NCERT EXERCISE	1
UNIT 4	d & f BLOCK ELEMENTS	13 Lectures
	<ul style="list-style-type: none"> Introduction of 'd' Block elements and their electronic configuration. 	2
	<ul style="list-style-type: none"> General trends in properties of 1st transition series, which includes – Atomic radii, Ionic radii, Colour formation, Oxidation states, Magnetic properties, Ionization enthalpy catalytic properties and alloy formation & Intext questions. 	4
	<ul style="list-style-type: none"> Preparation and properties of KMnO₄ & K₂Cr₂O₇ 	3
	<ul style="list-style-type: none"> Introduction of f-block elements, electronic configuration of Lanthanides and Actinides, Lanthanide. Contraction causes and consequences. Oxidation states of Lanthanides and Actinides, Difference between Lanthanides and Actinides. 	3
	Home assignment on the basis of Oxidation States and d – d transition.	1
UNIT 5	COORDINATION CHEMISTRY	12 Lectures
	<ul style="list-style-type: none"> Introduction to Co-ordination compounds complex & Definition of all terms related to these complexes. 	1
	<ul style="list-style-type: none"> Nomenclature of co-ordination Compounds & intext questions. 	2
	<ul style="list-style-type: none"> Isomerism in Coordination Compounds. 	2
	<ul style="list-style-type: none"> Werner's theory, V.B.T & hybridization in complexes. 	2

	• Crystal field theory, Crystal field splitting in Octahedral & tetrahedral complexes & intext questions.	2
	• Stability of Coordination complexes. Bonding in metal carbonyls, application of Co-ordination compounds. Double Salts.	2
	NCERT EXERCISE	1
UNIT 6	HALOALKANES & HALOARENES.	11 Lectures
	• Nomenclature & Classification of halo alkanes.	1
	• Preparation & Physical properties of halo alkenes.	2
	• Chemical Properties – Nucleophilic substitution, elimination reactions & reactions with metals, SN ¹ , SN ² mechanism, E ₂ mechanism (Saytzeff's & Hoffman's rule).	3
	• Optical isomerism with all definitions.	1
	• Nomenclature of haloarenes, Physical & Chemical properties.	2
	• Compounds of halogens: DDT, Ferons, CCL ₄ , CHCl ₃ , CH ₂ Cl ₂ .	1
	NCERT EXERCISE	1
UNIT 7	ALCOHOLS, PHENOLS & ETHERS.	9 Lectures
	• Nomenclature & Classification of Alcohols, Preparation & Physical properties of Alcohols.	3
	• Chemical properties, Acidic nature, Lucas test & Victor Meyer's test	2
	• Preparation & properties of phenol, Acidic nature of phenol.	2
	• Preparation & properties of ethers, Commercial Alcohol, Methanol & Ethanol.	1
	NCERT EXERCISE	1
UNIT 8	ALDEHYDES, KETONES & CARBOXYLIC ACIDS	11 Lectures
	• Nomenclature of Aldehydes & ketones & their preparation	3
	• Properties of Aldehydes & Ketones	3
	• Nomenclature of Carboxylic acids & their preparation.	2
	• Acidic Nature Of Carboxylic Acid	1
	Chemical properties of carboxylic acid	1
	NCERT EXERCISE	1
UNIT 9	ORGANIC COMPOUNDS CONTAINING (NITROGEN)	7 Lectures
	• Nomenclature & Classification of Amines	1
	• Preparation & Properties of Amines	2
	• Basic nature of amines & their comparison with NH ₃ & Hinsberg's test & intext questions.	2
	• Preparation & Properties of Diazonium Salts	1
	• Preparation & properties of Cyanides & isocyanides.	1

	Home assignment: Comparison of basic nature of ammonia derivative	
UNIT 10	BIOMOLECULES	11 Lectures
	• Carbohydrates – Classification, Structure of monosaccharides, Disaccharides & Polysaccharides Muta rotation.	2
	• Amino acids, their classification, peptides & polypeptides	2
	• Proteins – classification, structure & denaturation of proteins.	2
	• Nucleic acids – Nucleoside, Nucleotide structure of DNA, Difference between DNA & RNA	2
	• replication, Translation & Transcription.	1
	• Vitamins & enzymes. Lipids & hormones & intext questions.	1
	NCERT EXERCISE	1

SUBJECT: BIOLOGY

Lectures	TOPICS	
Unit – I	REPRODUCTION IN FLOWERING PLANTS	07 Marks
Lecture 1	Introduction on sexual Reproduction and its types	
Lecture 2	Flower structure and related terms	
Lecture 3	Microsporogenesis	
Lecture 4	Development of male gametophyte	
Lecture 5	Megasporogenesis	
Lecture 6	Development of female gametophyte	
Lecture 7	Pollination and types	
Lecture 8	Pollination agencies and examples	
Lecture 9	Out breeding devices	
Lecture 10	Pollen – pistil interaction and double fertilization	
Lecture 11	Post fertilization events introduction	
Lecture 12	Development of endosperm	
Lecture 13	Development of embryo	
Lecture 14	Development of seed and formation of fruit	
Lecture 15	Special models-apomixes, Parthenocarpy and Polyembryony	
Lecture 16	Significance of seed and fruit formation	
Unit -11	GENETICS	09 Marks
Lecture 17	Introduction on genetics, heredity and variation	
Lecture 18	Historical background of Mendel and 7 traits of pea plant	
Lecture 19	Mendelian inheritance; (a) law of dominance (monohybrid cross)	

Lecture 20	(b) law of segregation	
Lecture 21	(c) law of independent assortment (dihybrid cross)	
Lecture 22	Deviation from mendelism; incomplete dominance and co-dominance	
Lecture 23	Multiple alleles and inheritance of blood group	
Lecture 24	Pleiotropy and elementary idea of polygenic inheritance	
Lecture 25	Chromosomal theory of inheritance	
Lecture 26	Chromosomal and genes	
	Molecular basis of inheritance	
Lecture 27	Search for genetics material and DNA as genetic material Griffith experiment	
Lecture 28	Avery –macleod –mccarty experiment	
Lecture 29	Harshey and chase experiment	
Lecture 30	Structure of DNA	
Lecture 31	Structure of RNA and its types of RNA	
Lecture 32	DNA packaging	
Lecture 33	Various terms of molecular biology	
Lecture 34	DNA replication	
Lecture 35	Half replication and central dogma	
Lecture 36	Protein biosynthesis : mechanism of transcription	
Lecture 37	Genetic codon	
Lecture 38	Gene expression and regulation – lac operon	
Unit --111	BIOLOGY AND HUMAN WELFARE	07 Marks
Lecture 39	Tissue culture : cellular totipotency , technique	
Lecture 40	Application of tissue culture	
Lecture 41	Microbes in human welfare :microbes in food processing	
Lecture 42	Microbes in industrial production	
Lecture 43	Microbes in sewage treatment	
Lecture 44	Microbes in energy generation (biogas) and bio control agents	
Lecture 45	Microbes in biopesticides and bio-fertilizer	
Lecture 46	Microbes in antibiotics production and judicious use	
Lecture 47	Application of biotechnology in agriculture	
Lecture 48	Genetically modified organism –BT crops	
Lecture 49	Biopiracy and patents	
UNIT- IV	ECOLOGY AND ENVIRONMENT	12 marks
Lecture 50	Population :population attributes	
Lecture 51	Population growth (geometric and arithmetic)	

Lecture 52	Population interaction –mutualism , competition,predation	
Lecture 53	Parasitism ; population attributes – growth , birth rate and death rate , age distribution	
Lecture 54	Ecosystem ; patterns , components	
Lecture 55	Productivity and decomposition	
Lecture 56	Energy flow ; ecological pyramids	
Lecture 57	Pyramids of number , biomass and energy	
Lecture58	Biodiversity and its conservation ; biodiversity – concept, patterns	
Lecture 60	Biodiversity conservation ; hotspots	
Lecture 61	Endangered organism , extinction, red data book	
Lecture 62	Biosphere reserves , national park	
Lecture 63	Wildlife sanctuaries and Ramsar sites	
	SECTION - B ZOOLOGY	TOTAL MARKS: 35
UNIT--1	REPRODUCTION IN ANIMALS	11 Marks
Lectures	TOPICS	
Lecture 1	Introduction on human reproduction	
Lecture 2	Male reproductive system	
Lecture 3	Female reproductive system	
Lecture4	Microscopic anatomy of testis	
Lecture 5	Microscopic anatomy of ovary	
Lecture6	Gametogenesis : (a) spermatogenesis	
Lecture 7	(b) oogenesis	
Lecture 8	Menstrual cycle	
Lecture 9	Fertilization (half)	
Lecture 10	Fertilization (remaining half)	
Lecture 11	Embryo development upto blastocyst formation	
Lecture 12	Implantation and pregnancy	
Lecture 13	Placenta formation	
Lecture 14	Elementary idea of parturition and lactation	
	REPRODUCTIVE HEALTH	
Lecture15	Introduction and need for reproductive health	
Lecture 16	Various STDs and causal organisms	
Lecture 17	Prevention of sexually transmitted diseases (STDs)	
Lecture 18	Birth control need and methods	
Lecture19	Contraceptions	
Lecture20	Medical termination of pregnancy (MTP) ;aminocentesis	
Lecture 21	Infertility and assisted reproductive technologies –IVF	

Lecture 22	ZIFT,GIFT (elementary idea of general awareness)	
UNIT-II	GENETICS SND EVOLUTION	12 marks
Lecture 23	Sex determination in human	
Lecture 24	Sex determination birds and honey bee	
Lecture 25	Mechanism of linkage	
Lecture 26	Mechanism of crossing over	
Lecture 27	Sex linked inheritance ; haemophilia and colour blindness	
Lecture 28	Mendelian disorders in human thalassemia	
Lecture 29	Chromosomal disorders in humans ; down syndrome , turner”syndrome	
Lecture 30	Klinefelter syndrome and genome	
Lecture 31	Human genome project	
Lecture 32	DNA fingerprinting	
Lecture 33	Evolution ; origin of life	
Lecture 34	Biological evolution	
Lecture 35	Evidences of biological evolution part-1	
Lecture 36	Evidences of biological evolution part-11	
Lecture 37	Darwin’S contribution	
Lecture 38	Modern synthetic theory of evolution	
Lecture 39	Mechanism of evolution –variation (mutation and recombination	
Lecture 40	Natural selection with examples	
Lecture 41	Types of natural selection	
Lecture 42	Gene flow and genetic drift	
Lecture 43	Hardy- Weinberg’s principles	
Lecture 44	Adaptive radiation	
Lecture 45	Human evolution	
UNIT-III	BIOLOGY IN HUMAN WELFARE	07 marks
Lecture 46	Introduction of health and disease	
Lecture 47	Basic concepts of immunology –vaccines	
Lecture 48	Pathogens; parasites ,causing human diseases ; hepatitis	
Lecture 49	Dengue, filariasis and ascariasis	
Lecture 50	Typhoid and pneumonia	
Lecture 51	Common cold and amoebiasis	
Lecture 52	Ringworm and controls of all these disease	
Lecture 53	Cancer	
Lecture 54	HIV and AIDS	
Lecture 55	Adolescence	
Lecture 56	Drug and alcohol	

UNIT-IV	BIOTECHNOLOGY AND ITS APPLICATION	05 marks
Lecture 57	Biotechnology; principles and processes	
Lecture 58	Genetic engineering (recombinant DNA technology)	
Lecture 59	Application of biotechnology in health	
Lecture 60	Human insulin and vaccine production stem cell technology	
Lecture 61	Gene therapy. Transgenic animals bio- safety issues	

SUBJECT: ENVIRONMENTAL SCIENCE

Chapter 1 Air and Noise Pollution	
Lecture 1	Introduction of air and noise pollution
Lecture 2	Source of air Pollution
Lecture 3	Types of air pollution and its causes
Lecture 4	Impact of Air Pollution or Environment.
Lecture 5	Control of air Pollution – gaseous matter
Lecture 6	Control of air pollution particular matter
Lecture 7	Sources of noise pollution
Lecture 8	Effects of noise pollution on health
Lecture 9	Effects of noise pollution on environment
Lecture 10 Lecture 11	Control of noise Pollution
	Class test of unit 1air and noise pollution
Chapter 2 Water Pollution : Source and Impacts	
Lecture 12	Introduction of water pollution
Lecture 13	Sources of water pollution
Lecture 14	Impact of water pollution
Lecture 15	Concept of eutrophication and its sources
Lecture 16	Impact of eutrophication on aquatic life
Lecture 17	Impact of eutrophication on environment
Lecture 18	Control of eutrophication
Lecture 19	Concept of biomagnification
Lecture20	Source of biomagnification
Lecture 21	Impact of biomagnification on aquatic life
Lecture22	Concept of marine pollution
Lecture23	Causes of marine pollution
Lecture24	Control of water pollution

Lecture25	Sewage treatment ..primary Sewage treatment
Lecture26	Sewage treatment..secondary treatment
Lecture27	Class test of chapter 2 water pollution
Chapter 3 Soil Degradation	
Lecture 28	Introduction of soil degradation and soil type
Lecture 29	Composition of soil and features of soil
Lecture 30 Lecture 31	Soil profile and diagram of soil profile
Lecture 32	Type of soil
Lecture 33	Indian classification of soils
Lecture 34	Soil erosion and its causes
Lecture35	Impact and control of soil erosion
Lecture36	Concept of soil pollution and its causes
Lecture37	Impact of soil pollution
Lecture38	Control of soil pollution
Lecture39	Class test of unit 3soil degradation
Chapter 4 Solid and Hazardous Waste Management	
Lecture 40	Introduction of solid wastes and its management
Lecture 41	Sources of solid wastes
Lecture 42	Generation of solid wastes
Lecture 43	Impacts of solid wastes
Lecture 44	Different methods of disposal of solid wastes
Lecture 45	Compositing methods
Lecture 46	Incineration and sanitary landfill methods
Chapter 47	Management of soil waste
Lecture 48	Concept of hazardous waste and its definitions.
Lecture 49	Characteristics of hazardous waste
Lecture 50	Management of hazardous waste
Lecture 51	Deep well injection method
Lecture 52	Plasma torch ,incineration methods
Lecture 53	Class test of chapter 1v
Chapter 5 Biodiversity management	
Lecture 54	Introduction of diversity and biodiversity
Lecture 55	Level /type of biodiversity

Lecture 56	Importance of biodiversity
Lecture 57	Threats of biodiversity;causes
Lecture 58	Concepts of threatened spices [as per iuen]
Lecture 59	Extinct species ,endangered spices
Lecture 60	Vulnerable species and rare species
Lecture 61	Methods of conversion of biodiversity;
Lecture 62	Concept of in..situ and ex..situ conversion
Lecture 63	In..situ conversation;
Lecture 64	Difference zones of biosphere reserve
Lecture 65	Park and biosphere reserve
Lecture 66	Important wildlife sanctuary ,national parks and biosphere reserve in j&k &india
Lecture 67	Concept of cruopreservation
Lecture 68	Class test of unit 5
Chapter 6 Global Environmental issues	
Lecture 69	Introduction and concept of global environment issues
Lecture 70	Climate change and global warming
Lecture 71	Causes of global warming
Lecture 72	Impact of global warming
Lecture 73	National efforts for combating global waring.
Lecture 74	International efforts for combating global warming [Kyoto protocol]
Lecture 75	Ozone layer and ite depletion
Lecture 76	Formation of Ozone layer
Lecture 77	Causes of ozone layer depletion
Lecture 78	Ozone depletion gases
Lecture 79	Impacts of ozone layer depletion
Lecture 80	Global efforts for control ozone layer depletion
Lecture 81	Montreal protocol
Lecture 82	Concept of acid rain and its causes
Lecture 83	Impacts of acid rain
Lecture 84	Control of smog and its types
Lecture 85	Concept of desertification its causes
Lecture 86	Control of desertification

Lecture 87	Class test of unit 6
	Chapter 7 Environmental management and legislation
Lecture 88	Concept of sustainable development
Lecture 89	Goals of sustainable development
Lecture 90	Importance of sustainable development
Lecture 91	Concept of EIA;and its scope and goals
Lecture 92	Key elements of EIA
Lecture 93	Control of pollution act 1974
Lecture 94	Salient features of water pollution control act ` 1974
Lecture 95	Historic background of air pollution control act 1981
Lecture 96	Salient features of air pollution control act 1981
Lecture 97	Historic background of environmental protection act 1986
Lecture 98	Salient features of environment protection act 1986
Lecture 99	Class test of unit 7

SUBJECT: MATHEMATICS

Total No. of Lectures: 131

DAYS	CHAPTER - 1 RELATION AND FUNCTIONS	No. of Lect. = 07
Day 1	Basic of Relations and its Types Ex.1.1 – Q1 (i) (iv), Q3, (Problems based on Relations)	
Day 2	Ex 1.1 – Q5, Q7, Q9, (Problems based on Equivalence Relations)	
Day 3	Ex 1.1- Q14 and Basic of function & its Types	
Day 4	Ex. 1.2 - Q1, Q3, Q6 (Problems on Infectivity and Subjectivity)	
Day 5	Ex. 1.2 – Q9, Q10, Q12 (Problems on Objectivity Functions)	
Day 6	Misc. Exercise – Q2, Q5	
Day 7	Revision and Doubts	
	CHAPTER- 2 INVERSE TRIGONOMETRIC FUNCTIONS	No. of Lect. = 06
Day 8	Introduction of Inverse Trigonometric function & concept of Principal Branch & Principal value	
Day 9	Ex.2.1- Q1, Q4, Q7, Q9, Q11, Q11(Problem on Principal value)	
Day 10	Ex 2.1 - Q1, Q4, Q6, Q11, Q12, Q13	
Day 11	Misc. Exercise :- Q1, Q4, Q6, Q9, Q12, Q14	
Day 12	Revision and Doubts	
Day 13	Objectives Types Questions	
	CHAPTER - 3 MATRICES	No. of Lect. = 12

Day 14	Introduction of Matrix & its types	
Day 15	Concept of Equality of matrices. And Ex. 3.1 Q1,Q4,Q6 (problem on equality of matrices)	
Day 16	Ex 3.1 - Q7, Q10 (problem on equality of matrices)	
Day 17	Ex 3.2 Concept of Addition, Subtraction & Multiplication of matrices Q1, Q3	
Day 18	Ex 3.2 – Q6, Q7 (i) Q10, Q12, Q13 (problems on multiplication of two matrices	
Day 19	Q16, Q18 (Problems on Multiplication of two matrix)	
Day 20	Ex 3.3 Concept of Transpose of a matric, symmetric & skew symmetric matrix, Q1, Q3(i) Q6(i)	
Day 21	Ex 3.3 - Q8 & Q10 (problems on symmetric and skew symmetric matrix	
Day 22	Ex 3.4 - Q1 Concept of Inverse of a matrix & Theorem 4	
Day 23	Miscellaneous Exercise Q1, Q4, Q8, Q9, Q10	
Day 24	Revision and Doubts	
Day 25	Objectives Types Questions	
	CHAPTER - 4 DETERMINANTS	No. of Lect. = 11
Day 26	Basic of determinants and Ex 4.1 Q 1, Q3, Q5	
Day 27	Ex 4.1 - Q8 Concept of area of the triangle & concept of collinear.	
Day 28	Ex 4.2 – Q1(i), Q2, Q3(i) Concept of area of triangle	
Day 29	Ex 4.2 – Q4 (i) Concept of Minor and Cofactors.	
Day 30	Ex 4.3 – Q1 (i) , Q3, Q5 Concept of Inverse and its properties	
Day 31	Ex 4.4 - Q1, Q7, Q11 (problems on Inverse)	
Day 32	Ex 4.4 - Q1, Q7, Q11 (problems on Inverse)	
Day 33	Ex 4.5 – Q1, Q6 Concept of matrix method & consistency of the system	
Day 34	Ex 4.5 – Q1, Q3, Q7	
Day 35	Miscellaneous Exercise Q1, Q3, Q7	
Day 36	Miscellaneous Exercise Q8 & Revision and Doubts	
	CHAPTER – 5 CONTINUITY AND DIFFERENTIABILITY	No. of Lect. = 16
Day 37	Concept of Continuity and Ex 5.1 - Q1, Q5, Q7, Q7	
Day 38	Ex 5.1 – Q8, Q14, Q17, Q18 (problems on continuity of the function)	
Day 39	Ex 5.1 – Q23, Q26, Q30, Q31 (problems on continuity)	
Day 40	Ex 5.2 – Q1, Q4, Q8 Concept of derivative	
Day 41	Ex 5.2 –Q9 Concept of Implicit & Explicit function and Ex 5.3 Q1, Q4	
Day 42	Ex 5.3 –Q7, Q8, Q11, Q15 (Problems on Implicit and Explicit of the function)	
Day 43	Ex 5.4 – Q1, Q4, Q8, Q10	
Day 44	Ex 5.5 – Q1, Q13, Q15 (Logarithms differentiation)	
Day 45	Ex 5.5 – Q4, Q8, Q11, Q12 (Problems on Logarithms differentiation)	
Day 46	Ex 5.5 – Q12 Concept of Parametric form	
Day 47	Ex 5.6 – Q1, Q3, Q6 (Problems on Parametric function)	
Day 48	Ex 5.6 – Q8, Q10, Q11	
Day 49	Ex 5.7 –Q1, Q6, Q8, Q11 Concept of second order derivative	
Day 50	Ex 5.7 – Q13, Q15, Q17 (problems on second derivative)	
Day 51	Misc. Ex. Q2, Q6, Q12, Q13	
Day 52	Misc. Ex. Q16, Q18, Q22	

	CHAPTER- 6 APPLICATION OF DERIVATIVES	No. of Lect. = 12
Day 53	Ex 6.1 – Q1, Q3, Q5, Q7 Concept of Rate of change	
Day 54	Ex 6.1 – Q9, Q11, Q12, Q16 (Problems on rate of change)	
Day 55	Ex 6.2 – Q1, Q3, Q7, Q9 Concept of Increasing and Decreasing Function	
Day 56	Ex 6.2 – Q5, Q15, Q10 (Problems on Increasing and Decreasing function)	
Day 57	Ex 6.3 – Q1, Q2 Concept of Maxima & Minima without derivative method	
Day 58	Ex 6.3 – Q5 & Q12 Concept of Absolute Maxima & Absolute Minima	
Day 59	Ex 6.3 – Q3 Concept of Local Maxima & Local Minima by 2 nd derivative	
Day 60	Misc. Ex – Q10 Concept of Maxima & Minima by 1 st derivative Method	
Day 61	Ex 6.3 Q7, Q19, Q22	
Day 62	Ex – Q26 (Problems on Application of Maxima & Minima)	
Day 63	Misc. Ex – Q1, Q7, Q11	
Day 64	Revision and doubts	
	CHAPTER- 7 INTEGRALS	No. of Lect. = 22
Day 65	Ex 7.1 – Q1& Q5 Basic of Integral & Concept of Antiderivative by the method of Inspection	
Day 66	Ex 7.1 – Q 7, Q10, Q12, Q14, Q19, Q20	
Day 67	Substitution Method (concept) Ex 7.2 – Q1, Q3, Q5, Q9, Q11, Q14	
Day 68	Ex 7.2 –Q18, Q20, Q25, Q29, Q32, Q34, Q36	
Day 69	Ex 7.3 (concept) & Q1, Q3, Q7, Q9	
Day 70	Ex 7.3 – Q1, Q15, Q18, Q21, Q22	
Day 71	Six Special formula & Ex 7.4 – Q1, Q4, Q8, Q9	
Day 72	Ex 7.4 –Q11, Q14, Q16, Q19, Q23	
Day 73	Ex 7.5 (concept of partial fraction) Q1, Q4, Q9, Q13	
Day 74	Ex 7.5 –Q15, Q15, Q17, Q16	
Day 75	Ex 7.5 –Q18, Q19 (problem on partial fraction)	
Day 76	Concept of Integration by parts Ex 7.6 –Q1, Q3, Q5, Q8	
Day 77	Ex 7.6 –Q11, Q17, Q18, Q21 (problem on integration by parts)	
Day 78	Ex 7.7 – Q1, Q3, Q7, Q8	
Day 79	Ex 7.8 – Q1, Q4, Q5, Q7 (problem on definite integrals)	
Day 80	Ex 7.8 – Q12, Q15, Q17, Q18	
Day 81	Ex 7.9 –Q2, Q3, Q5, Q8 & Concept of Definite integrals	
Day 82	Ex 7.10 – Q1, Q4, Q5, Q8	
Day 83	Ex 7.10 – Q10, Q12, Q14, Q17 (problem based on properties of Integrals)	
Day 84	Misc. Ex – Q1, Q7, Q10, Q15	
Day 85	Misc. Ex – Q19, Q25, Q29, Q31, Q34	
Day 86	Misc. Ex – Q36, Q37	
	CHAPTER - 8 APPLICATION OF INTEGRALS	No. of Lect. = 04
Day 87	Ex 8.1 concept of area under simple curve	
Day 88	Ex 8.1 – Q1, Q3, Q4	
Day 89	Misc. Ex – Q1, Q2, Q3(problem on area under curve)	
Day 90	Revision & doubts	
	CHAPTER - 9 DIFFERENTIAL EQUATION	No. of Lect. = 11
Day 91	Ex 9.1 Concept of Differential Equation, Order of Differential Equation & Degree of Differential Equation	

Day 92	Ex 9.2 – Q1, Q3 Concept of the solution of the differential equation	
Day 93	Ex 9.2 – Q7, Q9, Q10, Q12 concept of variable separable method	
Day 94	Ex 9.3 – Q1, Q4, Q6, Q10	
Day 95	Ex 9.3 – Q13, Q14, Q16 & concept of homogeneous differential equation	
Day 96	Ex 9.4 – Q1, Q2, Q8	
Day 97	Ex 9.4 – Q10, Q13, Q14 (problem on homogeneous differential equation)	
Day 98	Ex 9.5 – Q1, Q3, Q8, Q12 & Concept of Linear differential equation	
Day 99	Ex 9.5 – Q13, Q15, Q17 (problem on Linear differential equation)	
Day 100	Misc. Ex Q1, Q4, Q6	
Day 101	Misc. Ex Q11, Q13, Q2 (iii)	
	CHAPTER - 10 VECTOR ALGEBRA	No. of Lect. = 11
Day 102	Ex 10.1 Q1, Q3, Q5 Concept of scalar & vector quantities and its types	
Day 103	Ex 10.2 – Q1, Q3, Q6 Concept of equality of two vector & addition/ subtraction of two vectors	
Day 104	Ex. 10.2 – Q7, Q10, Q11, Q14	
Day 105	Ex. 10.2 - Q15, Q17 & concept of product of two vectors & scalar of two products and projection	
Day 106	Ex. 10.3 - Q1, Q4, Q6, Q9	
Day 107	Ex. 10.3 – Q3, Q15, Q16 (problem based on scalar product)	
Day 108	Ex 10.4 – Q1, Q3, Q5 concept of vector product & area of triangle and parallelogram	
Day 109	Ex 10.4 – Q9, Q10, Q11 (problem based on cross product)	
Day 110	Misc. Ex. Q1, Q4, Q11	
Day 111	Misc. Ex. Q12, Q13, Q16, Q18	
Day 112	Revision and doubts	
	CHAPTER -11 THREE DIMENSIONAL GEOMETRY	No. of Lect. = 5
Day 113	Ex 11.1 – Q1, Q2, Q4 concept of direction & direction cosines (concept of angel between lines)	
Day 114	Ex 11.2 - Q4, Q6, Q8 (i), Q9 (i) (concept of shortest distance)	
Day 115	Ex 11.2 - Q12 and Q13 concept of shortest distance between two line	
Day 116	Misc. Ex.- Q1, Q3, Q5	
Day 117	Revision and doubts	
	CHAPTER -12 LINEAR PROGRAMMING	No. of Lect. = 4
Day 118	Basic of Linear Programming, Feasible region, Feasible solution, Optional solution & Objective function	
Day 119	Ex. 12.1 - Q1, Q2 (problem based L.P.P)	
Day 120	Ex. 12.1 - Q5, Q6 (problem based L.P.P)	
Day 121	Ex. 12.1 - Q8, Q10 & Revision and Doubts	
	CHAPTER 13 PROBABILITY	No. of Lect. = 10
Day 122	Ex. 13.1 - Q1, Q 4, Q5 & Basic of Probability	
Day 123	Ex. 13.1 - Q7, Q9, Q12, Q14 (problem on conditional probability)	
Day 124	Ex. 13.2 - Q1, Q2, Q5, Q9 concept of Independent events	
Day 125	Ex. 13.2 - Q 12, Q14 (problem based on Independent event)	
Day 126	Ex. 13.3 - Q2, Q4, Q7 Baye's Theorem (concept)	
Day 127	Ex. 13.3 - Q7, Q6, Q12 (problem on Baye's Theorem)	

Day 128	Ex. 13.4 - Q1, Q4, Q6 concept of probability distribution
Day 129	Ex. 13.4 – Q8, Q10 (problem on mean in probability distribution)
Day 130	Misc. Ex. Q1, Q3, Q5
Day 131	Misc. Ex Q7, Q10 & Revision and Doubts

SUBJECT: PHYSICAL EDUCATION

Chapter 1	PHYSICAL FITNESS
Day 1	Introduction of Physical Fitness.
Day 2	Meaning and definition of Physical Fitness.
Day 3	Importance of Physical Fitness.
Day 4	Components of Physical Fitness
Day 5	Components of Physical Fitness
Day 6	Factor affecting Physical Fitness.
Day 7	Principles of Physical Fitness development.
Day 8	Types of Physical Fitness
Day 9	Means of Physical Fitness development (Aerobic & Anaerobic activities)
Day 10	Multiple choice questions
Day 11	Revision of Lesson 1
Chapter 2	TRAINING METHODS
Day 12	Meaning and definition of Training & Training Method
Day 13	Phases of Training (Preparatory, Competition & Transitional period)
Day 14	Warm up (Meaning & Importance)
Day 15	Cooling down (Meaning & Importance)
Day 16	Strength development Training Method (Isometric Exercise)
Day 17	Isotonic Exercise
Day 18	Isokinetic Exercise
Day 19	Method of Endurance (Continuous Method)
Day 20	Interval Training Method.
Day 21	Fartlek Training Method.
Day 22	Circuit Training Method.
Day 23	Speed Development Method (Acceleration Run)
Day 24	Pace Run training method.
Day 25	Multiple choice questions
Day 26	Revision of Lesson 1
Chapter 3	SOCIOLOGICAL ASPECT OF PHYSICAL EDUCATION
Day 27	Meaning and definition of Sociology
Day 28	Importance of Sociology.

Day 29	Meaning, Definitions & Importance of Sports Sociology.
Day 30	Games and Sports as Man's Cultural Heritage.
Day 31	Games and Sports as Man's Cultural Heritage (continue)
Day 32	Meaning & Types of Leader/ Leadership
Day 33	Qualities of good leader.
Day 34	Development of leadership qualities through the medium of sports
Day 35	Meaning of Group dynamic & factors influence group dynamics
Day 36	Value Education through Physical Education Programmes.
Day 37	Methods for the Development of values.
Day 38	Reasons for ineffective Development of values.
Day 39	Revision of Lesson 3
Day 40	Multiple choice questions
Chapter 4	MORAL EDUCATION
Day 41	Meaning and Definition, Importance of Moral Education
Day 42	Morality and Immorality.
Day 43	Why Moral values are Eroding?
Day 44	How to revive value system
Day 45	Moral Education through Physical Education.
Day 46	Multiple choice questions
Day 47	Revision of Lesson 4
Chapter 5	SPORTS AND ENVIRONMENT
Day 48	Meaning and Definition, Types of Environment.
Day 49	Essential Elements of Positive Environment.
Day 50	Elements of Positive Environment (Continue)
Day 51	Meaning and Definition, Importance of Sports Environment.
Day 52	Essential Elements of Sports Environment.
Day 53	Role of parents in improving Sports Environment
Day 54	Role of Individual for improving positive Environment
Day 55	Prevention of sports related accidents
Day 56	Effects of air pollution on sports person..
Day 57	Multiple choice questions
Day 58	Revision of Lesson 5
Chapter 6	YOGA
Day 59	Meaning and definition of Yoga.
Day 60	Importance of Yoga in games & sports
Day 61	Elements of Yoga

Day 62	Elements of Yoga (Continue)
Day 63	Yoga as an Indian Culture.
Day 64	Yoga as an Indian Culture (continue)
Day 65	Types of Yoga Asanas (Culture Asanas)
Day 66	Meditative Asanas & Relaxation Asanas)
Day 67	Role of Yoga in Sports
Day 68	Multiple choice questions
Day 69	Revision of Lesson 6
Chapter 7	CONCEPT OF MAJOR GAMES AND SPORTS
Day 70	Physical Fitness Test – (for male and female)
Day 71	History of Athletics
Day 72	Standard track
Day 73	Staggers (meaning & formula)
Day 74	Track events (short distance races)
Day 75	Middle & Long distance races
Day 76	Relay & Hurdle races
Day 77	Field events (jumping events - long jump)
Day 78	High jump
Day 79	Triple jump
Day 80	Pole vault
Day 81	Throwing events (shot put throw)
Day 82	Discuss Throw
Day 83	Javelin Throw
Day 84	Hammer Throw
Day 85	Revision of track events
Day 86	Revision of field events
Day 87	History and Measurement of Table -Tennis.
Day 88	Rules and Regulations of Table -Tennis
Day 89	Skills and Terminology of Table -Tennis
Day 90	History and Measurement of Basket ball
Day 91	Rules and Regulations of Basketball
Day 92	Skill and terminology of Basketball
Day 93	History and Measurement of Cricket
Day 94	Rules and Regulations of Cricket
Day 95	Skill and terminology of Cricket
Day 96	Revision of games

Chapter 8	SPORTS MEDICINE , FIRST AID AND REHABILITATION
Day 97	Meaning and definition of Sports medicine.
Day 98	Importance of Sports Medicine.
Day 99	Meaning of drugs for doping (types of doping)
Day 100	Drugs used in Doping/Sports
Day 101	Drugs used in Doping/Sports (continues)
Day 102	Meaning and definition of Sports injuries
Day 103	Types of injuries (Acute injuries- Dehydration)
Day 104	Heat Stroke
Day 105	Exercise Induces Asthma (EIA)
Day 106	Chronic Injuries(Tendonitis)
Day 107	Fractures & its types
Day 108	Stress fractures
Day 109	Dislocation
Day 110	Soft tissue Injuries
Day 111	Meaning, Aims & Principles of First Aid
Day 112	Meaning of Rehabilitation & its importance in sports (RICER)
Day 113	World Antidoping Agency (WADA) & National Antidoping Agency (NADA)
Day 114	Revision of Lesson
Day 115	Multiple choice questions
Day 116	Muscle Injuries (Sprain and Strain)

SUBJECT: COMPUTER SCIENCE

Total Days: 140

UNIT - 1	CENTRAL STRUCTURES IN PYTHON	No. of Days
➤ Conditional Statements		
• If		2
• If else		2
• If – elif – else		2
➤ Loops		
• While Loop		2
• For Loop		2
• Finite Loop And Infinite Loop		2
• Nested Loop		2
• Break And Continue		2
• Practice For Program		2
• Labs And Smart Class Session		2
UNIT - 2	USER-DEFINED FUNCTIONS IN PYTHON	
➤ Concept of a function		1
➤ Creating a function		2

➤ Calling a function	2
➤ Arguments, Arbitrary Arguments	5
➤ Slope of a variable (Local and Global)	3
➤ Functions returning values	4
➤ Practice for programs	2
➤ Labs and smart class session	1
UNIT - 3	INTRODUCTION TO OBJECT ORIENTED PROGRAMMING IN PYTHON
Concept of object – oriented programming	1
Advantages of oops	3
Basic Elements of Oops: Clus, Encapsulation, Polymorphism, Inheritance, Data abstraction, object	5
➤ Access specifiers: <ul style="list-style-type: none"> • Public • Private • Protected 	2
➤ Constructors <ul style="list-style-type: none"> • Concept of constructor • Types of constructor • Default constructor • Parameterised constructor • Concept of destructor 	1 1 4 1 2
UNIT - 4	DATA STRUCTURES IN PYTHON
➤ Arrays <ul style="list-style-type: none"> • Concept of array • Creating an array • Accessing elements of an array • Array length with programs 	1 1 2 1
➤ List <ul style="list-style-type: none"> • Concept Of List • Creating A List • List Items (Ordered, Changeable, Allow Duplicates, List Length) 	1 1 2
➤ Dictionaries <ul style="list-style-type: none"> • Concept Of Dictionaries • Creating A Dictionary • Dictionary Items (Ordered, Changeable, Allow Duplicates, Dictionary Length) 	1 2 2
➤ Tuple <ul style="list-style-type: none"> • Concept Of Tuple • Creating A Tuple With One Item • Tuple Items (Ordered, Changeable, Allow Duplicates, Tuple Length) 	1 2 1
➤ Sets	

<ul style="list-style-type: none"> • Concept Of Sets • Creating Set • Set Items (Ordered, Changeable, Allow Duplicates, Tuple Length) 	2
UNIT - 5	DATABASE AND SQL
➤ Database and its advantages	1
➤ Relational data model	2
➤ Concept Of Domain, Relation, Attribute, Tuple, Candidate Key, Alternate Key, Primary key, foreign key	3
➤ SQL and its advantages	2
➤ Data types in SQL (number, char, date)	2
➤ DDL,DML,TCL, DCL	1
➤ SQL Commands <ul style="list-style-type: none"> • DDL Commands • Create • Drop • Alter 	3
➤ DML Commands <ul style="list-style-type: none"> • Select • Insert • Update • Delete 	3
➤ SQL Function <ul style="list-style-type: none"> • Sum () • Avg. () • Count. () • Min. () • Max. () 	4
UNIT - 6	BOOLEAN LOGIC
➤ Boolean Operators And, Or, Not	2
➤ Truth table	2
➤ Basic Logic Gates And ,Or, Not	3
➤ Universal gates <ul style="list-style-type: none"> • NAND • NOR • XOR 	4
➤ Laws Of Boolean Algebra <ul style="list-style-type: none"> • Commutative law • Associative law • Distribution law 	With circuit and truth tables 4
➤ Principle of duality	1
➤ Demorgans law (Prove these laws with truth tables and also draw circuit diagrams)	4
UNIT - 7	NETWORKING AND CYBER SECURTING

➤ Networking and its advantages	
➤ Types of networks <ul style="list-style-type: none"> • L.A.N • W.A.N • M.A.V • P.A.N 	
➤ Network topologies <ul style="list-style-type: none"> • Bus, mesh, hybrid, graph, tree • Star • Ring 	
➤ Modem	
➤ Cyber safety and security <ul style="list-style-type: none"> • Cyber bullying, preventive measures • Computer safety and security • Snooping • Phishing • Internet safety and ethics • Safe social networking • Safe email practices • Dos and Don'ts for cyber safety 	

SHIKSHA NIKETAN SENIOR SECONDARY SCHOOL
JEEVAN NAGAR, JAMMU
12TH CLASS (COMMERCE STREAM)
SESSION 2025-26

SUBJECT: ENGLISH

CYCLE TEST 1 (15th May 2025) **M.M: 20**

Chapter: The Third Level
The Last Lesson

Poem: My Mother at Sixty-Six

Writing Skills: Advertisement

CYCLE TEST 2 (After summer Vacation) **M.M: 20**

Chapter: The Tiger King
Lost spring

Poem: Keeping Quiet

Writing Skills: Invitations
Job Application

GOLDEN EXAM (18th September 2025) **M.M: 80**

Syllabus of Cycle Test 1 & 2

Chapter: Deep Water
Journey to the End of the Earth
The Rat trap
Indigo

Poem: On the face of it (Play)
A Thing of Beauty
Reading Comprehensions: Unseen Passage, Note-making
Writing Skills: Advertisement
Invitation & replies
Letter
Article writing
Job application
Speech, Debate, Narratives
Grammar: Articles, Prepositions, punctuation, Tenses
CYCLE TEST 3 (24th October 2025) **M.M: 20**
Chapter: The Enemy (vistas)

Indigo
Poets and Pancakes
Poem: A Roadside stand
Grammar: Modals, Conjunction
Writing Skill: Job application and Formal letter
PRE BOARD I (15th November 2025) **M.M: 80**
Chapter: The Interview
Going Places
Memories of child hood (vistas)

Aunt Jennefer's Tigers
Poems: All
Grammar: All
Writing Skill: All
Syllabus of Golden test and Cycle test 3rd
PRE BOARD II (after winter vacations) **M.M: 80**
All Syllabus

SUBJECT: ACCOUNTANCY

CYCLE TEST 1 (15th May 2025) **M.M. 20**

Introduction to Partnership
Goodwill

CYCLE TEST 2 (After summer Vacation) **M.M. 20**

Change in Profit Shary Ratio
Admission of Partner

GOLDEN EXAM (18th September 2025) **M.M. 80**

Syllabus covered under by Cycle Test 1 & 2
Retirement and Death of Partner

Dissolution of a firm
CYCLE TEST 3 (24th October 2025) **M.M. 20**

Share and share Capital
Forfeiture and Reissue

PRE BOARD– I (15th November 2025) **M.M. 80**

**Syllabus covered under by Cycle Test 1 + Cycle Test 2 +
Golden Exam + Cycle Test 3**

	Debenture		PRE BOARD – II	(after winter vacations)	M.M. 100
	Ratio Analysis				
	Financial Statement Analysis				
PRE BOARD – II	(after winter vacations)	M.M. 80			
	Syllabus covered under by Cycle Test 1 + Cycle Test 2 + Golden Exam + Cycle Test 3 + Pre Board – I				
SUBJECT: BUSINESS MATHS					
CYCLE TEST 1	(15th May 2025)	M.M: 20			
	Matrices				
CYCLE TEST 2	(After summer Vacation)	M.M: 20			
	Determinant				
GOLDEN EXAM	(18th September 2025)	M.M: 100			
	Syllabus of Cycle Test 1 & 2				
	Limits & Continuity				
CYCLE TEST 3	(24th October 2025)	M.M: 20			
	Integrals				
PRE BOARD – I	(15th November 2025)	M.M. 100			
	Syllabus of Golden Exam + Integrals				
	Application of Integrals				
	Differential equations				
PRE BOARD – II	(after winter vacations)	M.M. 100			
	Pre-Board I + Calculus				
	Computers				
SUBJECT: ECONOMICS					
CYCLE TEST 1	(15th May 2025)	M.M. 20			
Unit 1	Introduction to micro economic				
Unit 2	Consumer’s equilibrium				
CYCLE TEST 2	(After summer Vacation)	M.M. 20			
Unit 2	Demand and elasticity of demand				
Unit 3	Theory of Supply				
GOLDEN EXAM	(18th September 2025)	M.M. 100			
	Complete micro economic				
	Syllabus covered under by Cycle Test 1 & 2				
CYCLE TEST 3	(24th October 2025)	M.M. 20			
Unit 5	National Income & Aggregates				
Unit 6	Introduction				
	Circular flow & basic concept				
PRE BOARD – I	(15th November 2025)	M.M. 100			
	Micro economics complete				
	Macro-economic U-5, U-6				
Unit 7	Money and Banking				
Unit 8	Govt. Budget				
			PRE BOARD – II	(after winter vacations)	M.M. 100
			Complete Syllabus		
			SUBJECT: ENTREPRENEURSHIP		
			CYCLE TEST 1	(15th May 2025)	M.M. 20
			Chapter 1	Entrepreneurial Opportunities: Meaning & Objectives	
			Chapter 2	Environment Scanning	
			Chapter 3	Market Assessment	
			Chapter 4	Identification of Entrepreneurial opportunities	
			Chapter 5	Selection of Enterprise	
			CYCLE TEST 2	(After summer Vacation)	M.M. 20
			Chapter 6	Business and Steps in the setting up of an Enterprise	
			Chapter 7	Business Planning	
			Chapter 8	Preparation of Project Report	
			Chapter 9	Resource Assessment Financial and Non- financial	
			Chapter 10	Fixed Capital Requirement	
			GOLDEN EXAM	(18th September 2025)	M.M. 80
			Chapter 11	Working Capital Requirement	
			Chapter 12	General Management	
			Chapter 13	Marketing	
			Chapter 14	Functions of Marketing	
			Chapter 15	Marketing Mix	
			Chapter 16	Product Mix	
			Chapter 17	Price Mix	
			Chapter 18	Place Mix	
			Chapter 19	Promotion Mix	
			Syllabus of Cycle Test 1 & 2		
			CYCLE TEST 3	(24th October 2025)	M.M. 20
			Chapter 20	Sources of Long Term Finance	
			Chapter 21	Sources of Short Term Finance	
			Chapter 22	Human Resource Management	
			PRE BOARD – I	(15th November 2025)	M.M. 80
			Syllabus till Cycle Test 3		
			Chapter 23	Managing Growth and Sustenance	
			Chapter 24	Modernisation:- Meaning and Importance	
			Chapter 25	Franchising	
			Chapter 26	Entrepreneurial Discipline	
			PRE BOARD – II	(after winter vacations)	M.M. 80
			Chapter 27	Ecology	
			Chapter 26	Consumer Protection	
			+Complete Syllabus		

SUBJECT: BUSINESS STUDIES

CYCLE TEST 1	(15th May 2025)	M.M. 20
Chapter 1	Management	
Chapter 2	Principles of Management	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Chapter 3	Business Environment	
Chapter 4	Planning	
Chapter 5	Organising	
GOLDEN EXAM	(18th September 2025)	M.M. 100
	Syllabus of Cycle Test 1 + Cycle Test 2	
Chapter 6	Staffing	
Chapter 7	Directing	
CYCLE TEST 3	(24th October 2025)	M.M. 20
Chapter 8	Controlling	
Chapter 9	Business Finance	
PRE BOARD – I	(15th November 2025)	M.M. 100
	Syllabus covered till Cycle Test 3	
Chapter 11	Marketing	
PRE BOARD – II	(after winter vacations)	M.M. 100
	Full Syllabus including	
	Chapter 12 Consumer Protection	

SUBJECT: PHYSICAL EDUCATION

CYCLE TEST 1	(15th May 2025)	M.M. 20
Chapter 1	Physical Fitness	
Chapter 2	Meaning of Training and sports training, warming up and cooling down	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Chapter 2	Training Methods	
Chapter 3	Sociology Aspects of Physical Education	
GOLDEN EXAM	(18th September 2025)	M.M. 70
Chapter 1	Physical Fitness	
Chapter 2	Training Methods	
Chapter 3	Sociology Aspects of Physical Education	
Chapter 4	Moral Education	
CYCLE TEST 3	(24th October 2025)	M.M. 20
Chapter 5	Sports and Environment	
Chapter 6	Yoga	
Chapter 8	Sports Medicine First Aid and Rehabilitation	
PRE BOARD – I	(15th November 2025)	M.M.70
	Cycle 1 + Cycle 2 + Cycle 3 + Golden Exam.	
Chapter 7	Concept of major Games/Sports	
PRE BOARD II	(after winter vacations)	M.M: 70
	Cycle 1 + Cycle 2 + Cycle 3 + Golden Exam + Pre board 1	
Chapter 8	Sports Medicine First Aid and Rehabilitation	

SUBJECT: COMPUTER SCIENCE

CYCLE TEST 1	(15th May 2025)	M.M. 20
	Conditional statements in Python	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
	Boolean Logic	
GOLDEN EXAM	(18th September 2025)	M.M. 70
	Syllabus of Cycle Test 1 + Cycle Test 2	
	Functions	
	Oops	
CYCLE TEST 3	(24th October 2025)	M.M. 20
	Database & SQL	
PRE BOARD – I	(15th November 2025)	M.M. 70
	Syllabus of Cycle Test 1 + Cycle Test 2 + Golden Exam + Cycle Test 3	
	Data Structures	
PRE BOARD – II	(after winter vacations)	M.M. 70
	Cycle Test 1 + Cycle Test 2 + Golden Exam + Cycle Test 3 + Pre-board -1	
	Data Structures	
	Networking	
	Complete Syllabus	

SUBJECT: ENGLISH**M.M: 100**

S.NO.	CHAPTERS
1	Discussion of Syllabus
2	Introduction of the Chapter “The Last Lesson”
3	Explanation of the Chapter “The Last Lesson”
4	Discussion of Q/Answer of Chapter “The Last Lesson”
5	Worksheet of “The Last Lesson”
6	Introduction of Poem “My Mother at Sixty – Six”
7	Explanation of the Poem and Discussion of Q/Answer with ‘Poetic Devices’ “My Mother at Sixty – Six”
8	Worksheet of “My Mother at Sixty – Six”
9	Introduction of the Chapter “Lost Spring”
10	Explanation of the Chapter “Lost Spring”
11	Discussion of Q/Answer of Chapter “Lost Spring”
12	Worksheet of “Lost Spring”
13	Introduction of the Chapter “Deep Water”.
14	Explanation of the Chapter “Deep Water”
15	Explanation of the Chapter “Deep Water”
16	Discussion of Q/Answer “ Deep Water”
17	Worksheet of “Deep Water”
18	Introduction and Explanation of Poem ‘Keeping Quiet’
19	Discussion of Q/Answer of Poem ‘Keeping Quiet’
20	Worksheet of “Keeping Quiet”
21	Introduction of the chapter ‘The Rattrap’

22	Explanation of the chapter ‘The Rattrap’
23	Explanation of the chapter ‘The Rattrap’
24	Discussion of Q/Answer of the chapter ‘The Rattrap’
25	Worksheet of ‘The Rattrap’
26	Introduction and Explanation of Poem ‘A Thing of Beauty’
27	Discussion of Q/Answer of the Poem ‘A Thing of Beauty’
28	Worksheet of ‘A Thing of Beauty’
29	Introduction of the chapter ‘Indigo’
30	Explanation of the chapter ‘Indigo’
31	Explanation of the chapter ‘Indigo’
32	Discussion of Q/Answer of the chapter ‘Indigo’
33	Worksheet of ‘Indigo’
34	Introduction of the Poem ‘A Roadside stand’ with ‘Poetic Devices’
35	Explanation of the Poem ‘A Roadside stand’ with Poetic Devices
36	Discussion of Q/Answer
37	Worksheet of A Roadside stand
38	Introduction of the Chapter ‘Poets and Pancakes’
39	Explanation of the Chapter ‘Poets and Pancakes’
40	Explanation of the Chapter ‘Poets and Pancakes’
41	Explanation of the Chapter ‘Poets and Pancakes’
42	Discussion of Q/Answer
43	Worksheet of Poet and Pancakes
44	Introduction of the Chapter ‘The Interview’ (Part I-II)
45	Explanation of the chapter ‘The Interview’ (Part- I)
46	Explanation of the chapter ‘The Interview’ (Part- II)
47	Discussion of Q/Answer
48	Worksheet of ‘The Interview’
49	Introduction of the Poem ‘Aunt Jennifer’s Tigers’
50	Explanation and Discussion of Q/Answer of ‘Aunt Jennifer’s Tigers’
51	Introduction of the Chapter ‘Going Places’
52	Explanation of the Chapter ‘Going Places’
53	Explanation of the Chapter ‘Going Places’
54	Discussion of Q/Answer
55	Worksheet of Going Places
56	Introduction of the Chapter ‘The Third Level’
57	Explanation of the Chapter ‘The Third Level’
58	Discussion of Q/Answer
59	Worksheet of ‘The Third Level’
60	Introduction of the Chapter ‘The Tiger King’
61	Explanation of the Chapter ‘The Tiger King’
62	Explanation of the Chapter ‘The Tiger King’
63	Discussion of Q/Answer
64	Worksheet of ‘The Tiger King’

65	Introduction of the Chapter ‘Journey to the End of the Earth’
66	Explanation of the Chapter
67	Explanation of the Chapter and Discussion of Q/Answer
68	Worksheet of the Chapter
69	Introduction of the Chapter ‘The Enemy’
70	Explanation of the Chapter
71	Explanation of the Chapter
72	Explanation of the Chapter
73	Explanation of the Chapter
74	Explanation of the Chapter
75	Discussion of Q/Answer
76	Worksheet of the Chapter
77	Introduction of the Play ‘On the face of it’
78	Explanation of the Play
79	Explanation of the Play
80	Explanation of the Play
81	Discussion of Q/Answer
82	Worksheet of the Chapter
83	Introduction of the Chapter ‘Memories of Childhood’
84	Explanation of the Chapter ‘Memories of Childhood’
85	Discussion of Q/Answer
86	Worksheet of the Chapter
	WRITING SKILLS
87	Note making Explanation and format
88	Note making Practice
89	Advertisement format
90	Practice of advertisement
91	Invitation and Replies format
92	Practice of Invitation and Replies
93	Format of Letter Writing
94	Practice of Letter Writing
95	Format of Job Application
96	Practice of Job Application
97	Format of Article Writing
98	Practice of Article Writing
99	Format of Debate Writing
100	Practice of Debate Writing
101	Format of Speech Writing
102	Practice of Speech Writing
103	Format of Narrative Writing
104	Practice of Narrative Writing
	GRAMMAR
105	Tenses Explanation and usage
106	Tenses Explanation and usage
107	Tenses Explanation and usage

108	Tenses Explanation and usage (Practice)
109	Reflexive Pronouns Explanation and usage
110	Practice of Reflexive Pronouns
111	Narration Explanation and usage
112	Narration Explanation and usage
113	Narration Explanation and usage
114	Practice of Narration
115	Conjunction Explanation and usage
116	Practice of Conjunction
117	Preposition Explanation and usage
118	Preposition Explanation and usage
119	Practice of Preposition
120	Change of voice Explanation and usage
121	Change of voice Explanation and usage
122	Practice of Change of Voice

SUBJECT: ACCOUNTANCY

NO. OF LECTURES: 142

UNIT 1st	INTRODUCTION TO PARTNERSHIP ACCOUNTS	Days
A	Meaning of Partnership, Partnership Deed, Contents of partnership Deed, Rules to be Followed in Absence of Partnership Deed.	Day 1
B	Feature of Partnership, Rights and Duties of Partner, Introduction of Profit And Loss Appropriation Account	Day 2
C	Practical Questions Regarding Interest on Drawings	Day 3, 4
D	Practical Questions Regarding Interest on Capital	Day 5
E	Introduction to Partner's Capital Account	Day 6
F	Practical Problems relating to Partner's Capital Account	Day 7, 8
G	Introduction to Past Adjustment and Practical Problems of Past Adjustment	Day 9,10
H	Guarantee to a Partner	Day 11
I	Full Practical Problems	Day 12, 13
J	Revision and Presentation:- Interest on Capital Interest on Drawings Partner's Capital Account (Fixed/Fluctuating) Profit and Loss Appropriation Account Past Adjustment	Day 14, 15
UNIT 2nd	GOODWILL	
A	Meaning and Feature of Goodwill, Factors affecting goodwill, Need for Valuation of Goodwill, Types of	Day 16,17

	Goodwill	
B	Valuation of Goodwill by Average Profit Method	Day 18
C	Valuation of Goodwill by Super Profit Method	Day 19
D	Valuation of Goodwill by Super Profit Capitalisation Method	Day 20
E	Treatment of Goodwill	Day 21
F	Revision And Presentation: 1) Simple Average Profit Method 2) Average Weighted Profit Method 3) Average Capitalisation Method 4) Super Profit Method 5) Super Profit Capitalisation Method	Day 22,23
UNIT 3rd	CHANGE IN PROFIT SHARING RATIO	
A	Calculation of Sacrificing Ratio and Gaining Ratio, Distinguish Between Gaining Ratio and Sacrificing Ratio	Day 24
B	Questions Regarding Gaining Ratio and Sacrificing Ratio	Day 25
C	Introduction to Revaluation Account and Practical Problems Pertaining to Revaluation Account	Day 26,27
D	Practical Problems Relating To Revaluation Account, Partners' Capital Account And Balance Sheet	Day 28,29,30
E	Treatment of Several Reserve, Accumulated Profits and Losses, Workmen Compensation Reserve And Investment Fluctuation Reserve	Day 31,32
F	Revision and Presentation:- Gaining Ratio and sacrificing Ratio Revaluation Account, Partners' Capital Account And Balance Sheet	Day 33,34
UNIT 4th	ADMISSION OF PARTNER	
A	Calculation of Sacrificing Ratio and New Ratio	Day 35,36
B	Preparation of Revaluation account	Day 37
C	Treatment of Goodwill at the Time of Admission of Partner	Day 38,39
D	Preparation of Partner's Capital Account	Day 40,41
E	Preparation of Revaluation Account, Partner's Capital Account and Balance Sheet	Day 42, 43,44
F	Revision and Presentation:- Sacrificing Ratio And New Ratio Revaluation Account Partner's Capital Account And Balance Sheet	Day 45, 46
UNIT 5th	RETIREMENT AND DEATH OF PARTNER	
A	Calculation of Gaining Ratio	Day 47
B	Treatment of Goodwill in case of Retirement and Death of Partner	Day 48
C	Treatment of Several Reserves, Accumulated Profits and Losses, Investment Fluctuation Reserve, Workmen Compensation Fund	Day 49,50
D	Prepare Revaluation A/C, Partner's Capital Account &	Day 51,52,53

	Balance sheet	
E	Computation of Share of Profit of Deceased Partners and its Treatment	Day 54,55
F	Preparation of Partner's capital account at the time of death of Partner	Day 56,57
G	Revision and Presentation:- Revaluation Account Partner's Capital Account And Balance Sheet Partner's Loan Account	Day 58,59,60
UNIT 6th	DISSOLUTION OF A PARTNERSHIP FIRM	
A	Introduction to Dissolution of a firm and causes of dissolution of a firm	Day 61
B	Dissolution of Firm v/s Dissolution of Partnership	Day 62
C	How accounts are to be settled at the time of Dissolution of a firm?	Day 62
D	What do you mean by Realisation Account? Revaluation account v/s Realisation Account Preparation of Realisation Account	Day 63
E	Preparation of Partner's Capital Account, Realisation Account, Cash/Bank Account	Day 64, 65, 66,67
F	Revision and Presentation:- Realisation Account Partner's Capital Account And Cash/Bank Account	Day 68
UNIT 7th	COMPANY ACCOUNT: Shares/Forfeiture of Shares	
A	Meaning of Shares, Types of Shares, Meaning of Share Capital, Types of Share Capital , Equity Share v/s Preference Share Capital	Day 69,70
B	Issue of Share Capital at Par	Day 71
C	Issue of Share Capital At Premium	Day 72
D	Meaning Of Over Subscription, Under Subscription, Consideration Other Than Cash	Day 73
E	Practical Problems Relating To Over Subscription And Under Subscription	Day 74-78
F	Meaning Of Call In Arrear, Call In Advance, Practical Problem Relating To Call In Arrear And Call In Advance.	Day 79,80
G	Forfeiture of Shares And Re – Issue Of Forfeited Shares, Treatment Of Share Capital In Company Balance Sheet, Various Terms Of Share Capital	Day 81-85
H	Revision And Presentation: Call In Arrear Call In Advance Over Subscription Under Subscription	Day 86,87
UNIT 8th	DEBENTURES	
A	Meaning and Types of Debenture, Shares v/s Debenture, Meaning of Debenture Trust Deed	Day 88

B	Issue of Debenture at Par	Day 89
C	Issue of Debenture at Discount	Day 90
D	Issue of Debenture at Premium	Day 91
E	Issue of Debenture for Consideration Other Than Cash	Day 92
F	Collateral security and its treatment	Day 93
G	Treatment of Loss on Issue of Debenture and Discount on Issue of Debenture Cases Of Issue With Terms Of Redemption	Day 94-97
H	Meaning of Redemption of Debenture, Sources of Redemption of Debenture, Methods of Redemption of Debenture.	Day 98,99
I	Practical Problems Relating to Redemption of Debenture	Day 100, 101, 102, 103
J	Revision and Presentation:- Debenture Issue at par Debenture Issue at premium Debenture Issue at Discount Consideration other than cash Methods of Redemption of Debenture	Day 104, 105
PART - B UNIT 9th	FINANCIAL STATEMENT ANALYSIS	
A	Meaning of Financial Statement Analysis, Users of Financial Statement,	Day 106
B	Advantages and Disadvantages of Financial Statement Analysis and Various Tools of Financial Analysis	Day 107,108
UNIT 10th	MAJOR HEAD OF BALANCE SHEET	
A	Preparation of Company's Balance Sheet as per Company Act 2013	Day 109
B	Various Terms Used in Balance Sheet	Day 110
C	Revision and Presentation	Day 111
UNIT 11th	RATIO ANALYSIS	
A	Meaning. Significance, Object and Limitation of Ratio Analysis	Day 112,113
B	Practical Questions Of Liquidity Ratio	Day 114, 115,116
C	Practical Questions Of Solvency Ratio	Day 117, 118,119
D	Practical Questions Of Profitability Ratio	Day 120, 121,122
E	Practical Questions Of Activity Ratio	Day 123, 124,125
UNIT 12th	CASH FLOW STATEMENT	
A	Meaning, Significance and Limitation of Cash Flow statement	Day 126
B	Difference between Cash Flow statement and Fund Flow Statement	Day 127

C	Practical Problems Relating to Operating Activities	Day 128,129
D	Practical Problems Relating to Investing Activities	Day 130, 131,132
E	Practical Problems Relating to Financing Activities	Day 133, 134
F	Complete Cash Flow Statement Practical	Day 135-140
G	Revision and Presentation:- Operating Activities Investing Activities Financing Activities	Day 141,142

Theoretical and Practical

Max. Marks = 100

Internal = 5 Marks

External = 15 Marks

Subjective Paper = 80 Marks

Total = 100

SUBJECT: BUSINESS STUDIES

THEORY: 80

TOTAL NO. OF LECTURES: 140

PRACTICAL: 20

PART – A PRINCIPLES & FUNCTIONS OF MANAGEMENT	
Lecture No.	Topic
Chapter-1 Nature & Significance of Management	
1	Management – Meaning, Concept (Modern, Traditional Approach)
2	Features Of Management
3	Management – Objectives (Economic, Social, Personal)
4	Importance of Management
5-7	Nature of Management - As A Science
	Management as an Art.
	Management as a Science as Well as an Art
	Management as a profession
8	Levels of Management
9	Functions of Management & Distinguish between Management and Administration
10	Coordination – Meaning, Elements, features
11	Importance of Coordination
12	Coordination as an Essence of Management, Distinguish Between Coordination and Cooperation
13	Multiple Choice Questions, Revision of Chapter-1
Chapter – 2 Principles of Management	

14	Principles of Management – Introduction, Meaning and Nature
15	Importance of Principles of Management & Derivation of Management principles
16	Henry Fayols – Introduction and his Principles (1 to 7)
17	Principles Given by Henry Fayol (8 to 14)
18	Taylor’s Scientific Management- Meaning and Features
19	Principles of Scientific Management
20,21	Techniques of Scientific Management
22	Benefits of Scientific Management
23	Distinguish between Fayol’s and Taylor’s Contribution, Revision of Chapter-2
24	Very Short Answer Type Questions
Chapter – 3 Management and Business Environment	
25	Business Environment – Introduction, Meaning and characteristics
26	Significance of Business Environment
27,28	Dimensions of Business Environment
29	Liberalisation, Privatisation and Globalisation (LPG) – Concept & features
30	Very Short Answer Type Questions
31	Revision of Chapter-3
Chapter – 4 Planning	
32	Planning – Meaning, Definition and Features
33	Importance of Planning
34	Limitations of Planning
35	Planning Process
36	Types of Plan (Single use plan, Standing plan) including Objectives, Strategy, Policy, Method, Programmes, Budgets, Rules
37	Characteristics of a Good plan, Difference Among Various Plans
38	Revision of Chapter-4
39	Multiple Choice Questions
Chapter – 5 Organising	
40	Meaning and Characteristics of Organising
41	Objectives of Organising
42	Importance of Organising
43	Steps involved in the process of Organising
44,45	Formal and Informal Organisation:- a) Formal Organisation- <ul style="list-style-type: none"> • Meaning, • Features • Advantages and Disadvantages
	b) Informal Organisation- <ul style="list-style-type: none"> • Meaning, • Features • Advantages and Disadvantages
46,47	
48	Distinguish between Formal and Informal Organisation

49,	Structure of Organisation:-
50,	A) Functional Structure – Meaning, Merits and Demerits
51	B) Divisional Structure – Meaning, Merits and Demerits
52	Distinguish between Functional and Divisional Structure Meaning and Features of Delegation
53	Elements & Importance of Delegation, Differentiate between – Authority, Responsibility & Accountability,
54	Centralisation Concept Decentralisation – Concept and Importance
55	Distinguish Between a) Centralisation & Decentralisation b) Delegation and Decentralisation
56	Very Short Answer Type Questions
57	Revision of Chapter-5
Chapter – 6 Staffing	
58	Staffing – Concept and Importance
59	Staffing as a Part of Human Resource Management
60	Staffing Process
61	Staffing Element (Recruitment, Selection, Training) Meaning of Recruitment Sources of Recruitment – Internal Sources
62,63	Sources of Recruitment – External Sources
64	Selection – Meaning and Process
65	Distinguish between Recruitment and Selection
66	Training and Development – Concept and Importance
67	Methods of training (On the job, Off the job) On the Job – Methods
68	Off the job – Methods
69	Distinguish between – • Training and development • On the job V/S Off the job method of training
70	Multiple Choice Questions
71	Revision of Chapter-6
Chapter – 7 Directing	
72	Directing – Concept and Features
73	Importance of Directing
74	Principles of Directing
75	Elements of Directing (Supervision, Motivation, Leadership, Communication) (a) Supervision – Concept and Importance
76	(b) Motivation – Concept and Importance and Process
77	Maslow’s Need Hierarchy Theory of Motivation
78	Motivational Incentives :-Financial and Non-financial Incentives

79	(c) Leadership – Concept, Features and Importance
80	Qualities of a Good Leader
81	(d) Communication – Meaning, Importance and Process
82	Formal Communication – Meaning, Classification and types of Communication Network
83	Formal Communication – Advantages and Disadvantages
84	Informal Communication – Meaning and Types of Grapevine Network
85	Informal Communication – Merits and Demerits
86	Barriers to effective communication • Semantic Barriers • Psychological Barriers
87	• Organisational Barriers • Personal Barriers
88	Improving Communication Effectiveness, Difference between Formal and Informal Communication
89	Multiple Choice Questions
90	Revision of Chapter-7
Chapter – 8 Controlling	
91	Controlling – Concept, Meaning & Importance
92	Limitations of Controlling & Relationship between Planning and Controlling
93	Process of Controlling
94	Techniques of Controlling
95	Multiple Choice Questions
96	Revision of Chapter-8
PART – B Business Finance and Marketing	
Chapter – 9 Business Finance	
97	Concept and Importance of Business Finance and Financial Management
98	Objectives of Financial Management Financial Decisions : A) Investment Decisions Meaning and Factors Affecting Investment Decisions
99	B) Financing Decisions- Meaning and Factors Affecting Financing Decisions
100	C) Dividend Decisions-Meaning and Factors Affecting Dividend Decisions
101	Financial Planning – Concept, Objectives, Importance
102	Elements and Types of financial planning
103	Capital Structure – Meaning, Features Concept of Financial Leverage/Trading on Equity
104	Factors Affecting the Choice of Capital Structure
105	Fixed Capital – Meaning, Factors and Importance
106, 107	Working Capital – Meaning, Types & Factors Determining Working Capital Requirements.
108	Multiple Choice Questions
109	Revision of Chapter-9
Chapter – 10 Marketing Management	

110	Meaning and Concept of Marketing, Market and features
111	What can be Marketed? Who is a Marketer? Marketing Management – Meaning & Objectives
112	Functions and Role of Marketing
113	Concept of Selling; Distinguish between Marketing and Selling
114	Marketing Management – Philosophies
115	Marketing Mix – Meaning and Elements,
116	Product Mix – Nature and Classification (Consumer Products, Industrial Products)
117	Product mix – Branding, Packaging, and Labelling
118	Price mix – Meaning and Factors Determining Fixation of Price determination
119	Price mix – Pricing Policies and Strategies
120	Place mix – Meaning and Channels of Distribution – Functions of Distribution Channels
121	Types of Distribution Channels Factors Determining Choice of Channels of Distribution
122	Promotion Mix – Elements of Promotion Mix (a) Advertising – Objections, Importance and Media Selection
123	(b) Personal Selling – Meaning, features & Importance
124	(c) Sales Promotion – Meaning, features, Merits and Demerits
125	Sales Promotion – Methods and Qualities of a Good Salesman
126	(d) Publicity – Meaning, features, Advantages and Disadvantages
127	Distinguish between Advertising and Personal Selling
128	Multiple Choice Questions
129	Revision of Chapter-10
Chapter – 11 Consumer Protection	
130	Consumer Protection – Meaning, Concept and Need
131	Importance of Consumer Protection
132	Consumers – Concept, Remedies available to consumers
133	Legal Protection to consumers
134, 135	Consumer Protection Act 1986 <ul style="list-style-type: none"> • Consumer Rights • Consumer Responsibilities • Filing of complaint, Who Can File a Complaint?
136	Against Whom a Complaint Can be Filed? Ways and Means of Consumer Protection
137	Consumer Grievance Redressal Machinery
138	Consumer Awareness and Role of Consumer Organisations and NGO' s in protecting interest of consumers
139	Multiple Choice Questions
140	Revision of Chapter-11

DAYS	TOPICS
	CHAPTER – I MATRICES AND DETERMINANTS
Day 1	Introduction of Matrices and its types
Day 2	Concept of Equality of Matrix
Day 3	Ex. 3.1 Q1, Q4, Q6, Q7, Q10
Day 4	Ex. 3.1 Q7, Q10
Day 5	Ex 3.2 concept of Addition, Subtraction and Multiplication of matrices
Day 6	Ex. 3.2 Q1, Q3, Q5
Day 7	Ex. 3.2 Q6, Q7
Day 8	Ex. 3.2 Q9, Q10, Q13
Day 9	Ex. 3.2 Q16, Q18
Day 10	Concept of Transpose of matrix and it property
Day 11	Symmetric, Skew Symmetric
Day 12	Ex. 3.3 Q1, Q3, Q5
Day 13	Ex. 3.3 Q7, Q9, Q10
Day 14	Miscellaneous Exercise Q1,Q4,Q8
Day 15	Miscellaneous Exercise Q10, Q12
Day 16	Revision and doubts
	CHAPTER – II DETERMINANTS
Day 17	Basic of Determinants Ex. 4.1 Q1
Day 18	Ex. 4.1 Q3, Q5
Day 19	Ex. 4.1 Q8, Q9
Day 20	Concept of Area of triangle Ex. 4.2 Q1, Q2
Day 21	Ex. 4.2 Q3 (i), Q4(ii)
Day 22	Concept of Adjoint , Inverse of matrices and property
Day 23	Ex. 4.4 Q1, Q7, Q11
Day 24	Ex. 4.4 Q12, Q13, Q16
Day 25	Concept of matrix method & consistencies of the system
Day 26	Ex. 4.5 Q1, Q6
Day 27	Ex. 4.5 Q7, Q12, Q15
Day 28	Concept of Cramer Rules
Day 29	Ex. 4.6 Q1, Q5, Q7
Day 30	Ex. 4.6 Q10, Q12
Day 31	Miscellaneous exercise Q1, Q3, Q7
Day 32	Miscellaneous exercise Q8, Q10 & concept of properties of determinants
Day 33	Problem based on properties of determinants
	CHAPTER – III LIMITS AND CONTINUITY
Day 34	Introduction of limit and property
Day 35	Ex. 13..1 Q1, Q4, Q6
Day 36	Ex. 13..1 Q7, Q8, Q10
Day 37	Ex. 13.1 Q14, Q17, Q20, Q22, Q24
Day 38	Ex. 13.1 Q22, Q24, Q28
Day 39	Ex. 13.1, Q29, Q31, Q32
Day 40	Introduction of continuity with graph
Day 41	Ex. 5.1 Q1 Q,5, Q7, Q13

Day 42	Ex. 5.1 Q8, Q14, Q17, Q18 (problem on continuity of function)
Day 43	Ex. 5.1 Q23, Q26, Q30, Q31 (problem on continuity)
	CHAPTER – IV DIFFERENTIATION
Day 44	Formula of differentiation, Define Differentiation, concept of abinitio- method
Day 45	Ex. 5.2 Q1, Q4, Q8
Day 46	Ex. 5.2 Q9, Concept of implicit function
Day 47	Ex.5.3 Q1, Q4, Q5
Day 48	Ex.5.3 Q8, Q11, Q13
Day 49	Ex. 5.4 Q1, Q4, Q8, Q10
Day 50	Logarithm differentiation Ex. 5.5 Q1, Q3
Day 51	Ex. 5.5 Q18, Q13, Q11
Day 52	Eg. 17 Ex. 5.5 Q14, Q15
Day 53	Ex. 5.6 Q1, Q3, Q6 (Parametric equation)
Day 54	Ex. 5.6 Q8, Q10, Q11
Day 55	Concept of double derivation Ex. 5.7 Q1, Q6, Q8
Day 56	Ex. 5.7 Q13, Q15, Q17
Day 57	Misc. Ex. Q2, Q6, Q12, Q13
Day 58	Misc. Ex. Q16, Q18, Q22
	CHAPTER – V INTERGRATION
Day 59	Basic of integral and concept of Anti- derivation by the method of inspection
Day 60	Ex. 7.1 Q1, Q5
Day 61	Ex. 7.1 Q7, Q10, Q12, Q19, Q20
Day 62	Substitution method Ex7.2 Q1, Q3, Q5, Q9, Q14
Day 63	Ex 7.2 Q18, Q20, Q20, Q25, Q29, Q34, Q36
Day 64	Ex 7.3 (Concept) Q1, Q3, Q7 (problem based on Trigonometric function)
Day 65	Ex 7.3 Q11, Q15, Q18, Q22
Day 66	Six special formula Ex 7.4 Q1, Q4, Q8, Q9
Day 67	Ex 7.4 Q11, Q14, Q16, Q23
Day 68	Ex 7.5 Q7, Q10, Q12 (concept of partial fraction)
Day 69	Ex 7.5 Q14, Q18, Q20
Day 70	Ex 7.6 Q1, Q5, Q7
Day 71	Ex 7.4 Q9, Q11, Q13 (Integration by parts)
Day 72	Ex 7.7 Q1, Q5, Q9
Day 73	Limit as Sum Ex 7.8 Q1, Q6
Day 74	Ex. 7.9 Q5, Q9, Q12
Day 75	Ex 7.9 Q10, Q12, Q15
Day 76	Ex 7.10 Q1, Q3, Q7
Day 77	Property of definite integral Ex 7.11 Q1, Q4, Q6
Day 78	Ex 7.11 Q8, Q10, Q12
Day 79	Ex 7.11 Q16, Q18
Day 80	Miscellaneous exercise Q1, Q5, Q7, Q10
Day 81	Miscellaneous exercise Q12, Q15, Q18
Day 82	Miscellaneous exercise Q20, Q23, Q25, Q27, Q30
	CHAPTER – VI DIFFERENTIAL EQUATIONS
Day 83	Introduction of order and degree Ex 9.1 Q1, Q5, Q7, Q10

Day 84	Ex 9.2 Q1, Q5, Q7, Q10
Day 85	General sol ⁿ and particular solution of different type of differential equation
Day 86	Ex. 9.4 Q1, Q3, Q7, Q10 (separation of variable)
Day 87	Ex. 9.4 Q11, Q14
Day 88	Ex. 9.5 (Homogeneous equation) Q1, Q3, Q6
Day 89	Ex. 9.5 Q8, Q10
Day 90	Ex. 9.5 Q11, Q13, Q15
Day 91	Linear Differential equation
Day 92	Ex. 9.6 Q2, Q3
Day 93	Ex. 9.6 Q6, Q8, Q10
Day 94	Ex. 9.6 Q11, Q13, Q15
Day 95	Misc. Ex. Q 6, Q7, Q10
Day 96	Misc. Ex. Q 11, Q12, Q15
	CHAPTER – VII APPLICATION OF CALCULUS
Day 97	Cost Function, Revenue function, Average cost, Average Revenue, Total cost function
Day 98	Problem based on Function
Day 99	Marginal Cost, Marginal Revenue function and its Problem
Day 100	Break event Function, and Problem based on it
Day 101	Profit function, maximum profit and problem based on it
Day 102	Example of calculus
	CHAPTER – VIII COMPUTING
Day 103	Introduction to Computer
Day 104	Function of computer
Day 105	Block structure diagram of computer
Day 106	Algorithms and its Example.
Day 107	Flow charts and its Example.
Day 108	Memory concept

SUBJECT: BUSINESS STUDIES

PART – A PRINCIPLES & FUNCTIONS OF MANAGEMENT	
Day/ Period s	Topic
Chapter – 1 Nature & Significance of Management	
1	Management – meaning, concept (Modern, Traditional) and features
2	Management – Objectives (Economic, Social, Personal)
3	Importance of Management
4	Levels of Management
5	Nature of Management (As an Art, As a Science)
6	Nature of Management – As a profession
7	Functions of Management & Distinguish between Management and Administration
8	Coordination – Meaning, Elements, features

9	Coordination – Importance, Coordination as an essence of management
10	Distinguish between coordination and cooperation
11	Discussion about the relevance of management and coordination
Chapter – 2 Principles of Management	
12	Principles of Management – Introduction, Meaning and Nature
13	Importance of Principles of Management & Derivation of Management principles
14	Henry Fayols – Introduction and his principles (1 to 7)
15	Next Seven principles given by Henry Fayol (7 to 14)
16	Taylor’s Scientific Management – Principles
17	Techniques of Scientific Management
18	Distinguish between Fayol’s and Taylor’s contribution
19	Discussion about the previous board exam papers
Chapter – 3 Management and Business Environment	
20	Business Environment – Introduction, Meaning and characteristics
21	Business Environment – Significance
22	Dimensions of Business Environment
23	Impact of Government policy changes on Business and Industry
24	Liberalisation, Privatisation and Globalisation (LPG) – Concept & features
25	Discussion about the impact of Business Environment
Chapter – 4 Planning	
26	Planning – Meaning, definition, features
27	Planning – Importance & Limitations
28	Planning – Process
29	Types of Plan (Single use plan, Standing plan) including Objectives, Strategy, Policy, Method, Programmes, Budgets, Rules
30	Characteristics of a Good plan
31	Differences among various plans
32	Chart out a proper plan of any occasion which we celebrate in our school
Chapter – 5 Organising	
33	Organising – Meaning, Importance
34	Steps involved in the process of Organising
35	Structure of Organising
36	Types of Organisational (Functional, Divisional) Structure; Functional Structure – Meaning, Merits and Demerits
37	Divisional Structure – Meaning, Merits and Demerits
38	Formal Organisation – Meaning, Features, Advantages and Disadvantages
39	Informal Organisation – Meaning, Features, Advantages and Disadvantages
40	Delegation – Concept, Elements & Importance
41	Decentralisation – Concept and Importance & Distinguish between Centralisation & Decentralisation
42	Distinguish between – • Delegation and Decentralisation

	• Formal and Informal Organisation
43	Differentiate between – • Functional and Divisional Structure • Authority, Responsibility & Accountability • Formal and Informal Organisation
44	Is your School a centralised or decentralized body? Explain how
Chapter – 6 Staffing	
45	Staffing – Concept and Importance
46	Staffing as a part of HRM
47	Staffing – Process
48	Staffing Element (Recruitment, Selection, Training) Recruitment – Internal Sources
49	Recruitment – External Sources; Advantages and Disadvantages
50	Selection – Meaning and Process
51	Training and Development – Concept and Importance
52	Methods of training (On the job, Off the job) On the Job – Methods
53	Off the job – Methods
54	Distinguish between – • Recruitment and Selection • Training and development • On the job VS Off the job method of training
55	If you are a HR Manager of reputed firm? What will be your Selection Policy?
Chapter – 7 Directing	
56	Directing – Concept and Features
57	Importance of Directing
58	Principles of Directing
59	Elements of Directing (Supervision, Motivation, Leadership, Communication) (a) Supervision – Concept and Importance
60	(b) Motivation – Concept and Importance and Process
61	Maslow’s Need Hierarchy theory of motivation
62	Motivational Incentives (Financial, Non-financial)
63	(c) Leadership – Concept, Features and Importance
64	Qualities of a Good Leader
65	Styles of Leadership
66	(d) Communication – Meaning, Importance and Process
67	Formal Communication – Meaning, Classification and types of Communication Network
68	Formal Communication – Advantages and Disadvantages
69	Informal Communication – Meaning and Types of Grapevine Network
70	Informal Communication – Merits and Demerits
71	Barriers to effective communication • Semantic Barriers • Psychological Barriers

72	<ul style="list-style-type: none"> Organisational Barriers Personal Barriers
73	Improving Communication Effectiveness
74	Difference between Formal and Informal Communication
75	Being a Leader; how will you motivate your subordinates in order to achieve desired Goals?
Chapter – 8 Controlling	
76	Controlling – Concept, Meaning & Importance
77	Limitations of Controlling & Relationship between Planning and Controlling
78	Process of Controlling
79	Techniques of Controlling – Traditional
80	Techniques of Controlling – Modern
81	How Controlling be forward and backward looking process?
PART – B PRINCIPLES & FUNCTIONS OF MANAGEMENT	
Chapter – 9 Business Finance	
82	Concept and Importance of Business finance and financial Management
83	Objectives of Financial Management
84	Financial Decisions (Investment, Financing, Dividend) Investment Decisions; Meaning and Factors
85	Financing Decisions; Meaning and Factors
86	Dividend Decisions; Meaning and Factors
87	Financial Planning – Concept, Objectives and Importance
88	Capital Structure – Meaning, features and concept of financial leverage
89	Factors affecting the choice of capital structure
90	Fixed Capital – Meaning, Factors and Importance
91	Working Capital – Meaning & factors determining working capital requirements
92	Survey regarding different modes of funds
Chapter – 10 Financial Markets	
93	Financial Markets – Meaning and functions
94	Types of financial Markets (Capital Market, Money Market) Money Market – Meaning and Instruments traded in Money Market
95	Capital Market (Primary Market, Secondary Market) – Meaning & functions
96	Differentiate between Money and Capital Market
97	Stock Exchange – Meaning and Functions
98	Trading Procedure on a Stock Exchange and Concept of Stock Market Index
99	National stock Exchange of India (NSEI)
100	Over the Counter Stock Exchange of India (OTCEI)
101	Securities and Exchange Board of India (SEBI) – Establishment, Purpose and Role
102	SEBI – Objectives and functions
103	Important terms used in financial Markets
104	Make a list of top ten companies of India which are entered in financial Market

	with name of their instruments.
Chapter – 11 Marketing Management	
105	Meaning and Concept (Traditional Marketing, Modern Marketing) and features
106	What can be Marketed? Who is a Marketer? Marketing Management – Meaning & Objectives
107	Functions of Marketing & Role of Marketing
108	Concept of Selling; Distinguish between Marketing and Selling
109	Marketing Management – Philosophies
110	Marketing Mix – Meaning and Elements (Product mix, Price mix, Place mix, Promotion mix)
111	Product Mix – Meaning and Classification (Consumer Products, Industrial Products)
112	Product mix – Branding
113	Product mix – Labelling
114	Product mix – Packaging
115	Price mix – Meaning and factors determining fixation of Price determination
116	Price mix – Pricing policies
117	Place mix – Meaning and Channels of Distribution – functions of Distribution Channels
118	Types of Distribution channels
119	Factors determining choice of channels of distribution
120	Promotion Mix – (a) Advertising – Objections, Importance and Media Selection
121	Promotion Mix – (b) Personal Selling – Meaning, features & Importance
122	(c) Sales Promotion – Meaning, features, Merits and demerits
123	Sales Promotion – Methods and Qualities of a Good Salesman
124	(d) Publicity – Meaning, features, Advantages and Disadvantages
125	Distinguish between Advertising and Personal Selling
126	Being a Marketing Manager, how will you market your product using all elements
Chapter – 12 Consumer Protection	
127	Consumer Protection – Meaning and Importance
128	Consumers – Concept, Remedies available to consumers
129	Legal Protection to consumers
130	Consumer Rights
131	Consumer Responsibilities
132	Ways and Means of Consumer Protection
133	Redressal Machinery
134	Consumer Awareness and Role of Consumer Organisations and NGO' s in protecting interest of consumers
135	Make list of NGO's or Consumer Organisations which are helping consumers in India.

Total No. of Lectures – 135

Subjective – 100 Marks

SUBJECT: ENTREPRENEURSHIP

Days	Unit – I Entrepreneurial Opportunities and Enterprise Creation	20 Marks
	Chapter – 1 Entrepreneurial Opportunities	
1	Meaning of Opportunity, Entrepreneurial Opportunity & Perceiving an Opportunity, Difference Between An Entrepreneur and An Employee	
2	Sensing Entrepreneurial opportunities & Two Key Roles of an Entrepreneur	
3	Factors involved in the Process of Sensing Opportunities, Multiple Choice Questions	
	Chapter – 2 Environment Scanning	
4	Meaning and Need of Environment scanning	
5	Approaches to Environment Scanning and Environment Scanning process	
6	Factors Influencing Entrepreneurial Environments – Economic Factors	
7	Factors Influencing Entrepreneurial Environments – Social	
8	Factors Influencing Entrepreneurial Environments – Political, Legal & Financial Factors	
9	Advantages and Limitations of Environment Scanning, Sources of Environmental Scanning	
10	Multiple Choice Questions	
	Chapter – 3 Market Assessment	
11	Meaning of Market Assessment, Stages of Market Assessment	
12	Techniques of Market Assessment, Uses and Significance of Market Assessment.	
	Chapter – 4 Identification of Entrepreneurial Opportunities	
13	Entrepreneurial Opportunities – Meaning, Factors Affecting Identification of Entrepreneurial Opportunities	
14	Objectives, Sources of Entrepreneurial Opportunities, Ways to Identify an Opportunity	
15	What Helps Entrepreneurs to Identify New Business Opportunities? Idea Generation – Meaning & Sources	
16	Role of Innovation in Identification of Entrepreneurial Opportunities:- Innovation – Meaning, Types & Phases	
17	Innovation Process & Developing Organisational Innovation, Constituents of Innovation Abilities.	
18	Multiple Choice Questions	
	Chapter – 5 Selection of an Enterprise	
19	Enterprise selection – Meaning, Criteria, Factors in the Selection of an Enterprise	

20	General Format on scope of Feasibility Report	
21	Planning Commission Guidelines	
	Chapter – 6 Steps in the setting up of an Enterprise	
22	Steps in the setting up of an enterprise (1 st to 8 th)	
23	Steps in the setting up of an enterprise (9 th to 18 th)	
24	Licensing system – Meaning & objectives	
25	Provision related to licensing & List of industries in which licensing is compulsory	
26	Multiple Choice Questions	
	Unit – II Enterprise Planning & Resourcing	30 Marks
	Chapter – 7 Business Planning	
27	Business Planning – Meaning, Features and Principles	
28	Importance and Limitations of Business Planning	
29	Steps in Business Planning Process	
30	Multiple Choice Questions	
	Chapter – 8 Preparation of a Project Report	
31	Project Report – Meaning, Objectives and Elements of Project Report	
32	Characteristics of Project Report	
33	Formulation of Project Report	
34	Specimen Proforma of Project Report	
35	Project Report Appraisal – Meaning, Team and Objectives	
36	Elements of Project Report Appraisal	
37	Common Errors in Project Report Appraisal	
38	Multiple Choice Questions	
	Chapter – 9 Resource Assessment	
39	Meaning, Importance and Types of Financial Resources(1-6)	
40	Financial Resources – Types (7-13), Aim of Finance Function	
41	Scope of Financial Resources	
42	Non-Financial Aspects – Relationship Between Finance Function and Other Business Functions	
43	Multiple Choice Questions	
	Chapter – 10 Fixed Capital Requirement	
44	Fixed Capital Requirement – Meaning and Factors affecting estimation of fixed assets requirement	
45	Estimation of Intangible Assets Requirements	
46	Sources of finance for fixed capital, Multiple Choice Questions	
	Chapter – 11 Working Capital Requirement	
47	Meaning & Classification of Working Capital	
48	Advantages of Working Capital	
49,50	Factors determining working capital requirements	

51	Sources of working capital – Fixed	
52	Sources of working capital – variable	
53	Multiple Choice Questions	
	Unit – III Enterprise Management	30 Marks
	Chapter – 12 General Management: Basic functions	
54	Management & Entrepreneurship – Meaning & Distinguish	
55,56	Management Responsibilities of an Entrepreneur, Characteristics of an Entrepreneur	
57	Functions of an Entrepreneur – Entrepreneurial and Promotional	
58	Functions of an Entrepreneur – Managerial	
59	Functions of an Entrepreneur – Commercial	
60	Multiple Choice Questions	
	Chapter – 13 Managing Market	
61	Market & Marketing – Meaning & Characteristics of Marketing	
62	What is to be marketed? Differentiate Between Marketing & Selling	
63	Marketing Management – Meaning & Objectives	
64,65	Importance of Marketing	
66	Process of Marketing	
	Chapter – 14 Functions of Marketing	
67,68	Functions of Marketing (Merchandising Functions)	
69	Functions of Marketing (Physical Distribution)	
70	Functions of Marketing (Facilitating)	
71	Branding – Meaning & Advantages, Pricing – Meaning & Advantages	
72	Role of Marketing in a Developing Economy	
	Chapter – 15 Marketing Mix	
73,74	Marketing Mix – Meaning, Elements, Product Mix – Meaning and Variables	
75	Place Mix- Meaning and Variables	
76	Price Mix- Meaning and Variables	
77	Promotion Mix –Meaning and Variables, Importance Of Marketing Mix	
78	Multiple Choice Questions	
	Chapter – 16 Product Mix	
79,80	Product – Meaning, Features, Classification,	
81	Product Planning – Meaning, Objectives,	
82	Product Planning – Components, Significance	
	Chapter – 17 Quality Control	
83	Quality Control- Meaning, Objects, Principles	
84	Quality Control Process,	
85	Factors Affecting the Quality of Goods,	

	Functions of Quality Control	
86	Advantages of Quality Control	
	Chapter – 18 Price Mix	
87	Price Mix – Meaning, Price Objectives	
88	Factors Influencing Price Determination	
89,90,91	Pricing Process, Methods of Price Determination	
92	Multiple Choice Questions	
	Chapter – 19 Place Mix	
93,94	Place Mix – Meaning, Channel of Distribution – Role & Types	
95,96,97,98	Types of Intermediaries	
99,100	Factors Affecting the Choice of Distribution Channels	
	Chapter – 20 Promotion Mix	
101	Promotion Mix – Meaning ,Objectives, Factors Affecting Promotion Mix	
102	Advertising – Meaning, Objectives, Advantages(Manufacturer and Consumer)	
103	Advantages(Salesmen and Society)	
104	Types Of Advertising Media	
105,106	Sales Promotion- Meaning, Objectives, Tools And Techniques	
107	Personnel Selling- Meaning, Differentiate Between Advertising & Personal Selling, Benefits of Personnel Selling	
108	Process of Personnel Selling,	
109	Essentials of Effective Selling, Methods of Personnel Selling	
110	Multiple Choice Questions	
	Chapter – 21 Sources of Long Term Finance	
111	Security Financing: Meaning, Classification: A) Ownership Securities:-1. Equity Shares- Meaning, Characteristics, Advantages and Disadvantages.	
112	2.Preference Shares: Meaning, Types and Features	
113	Merits & Demerits of Preference Shares	
114	Deferred Shares, No Par Shares, Shares With Differential Rights & Sweat Equity	
115	B) Creditorship Securities:- Debentures- Meaning, Features and Types	
116	Advantages & Disadvantages of Debentures, Distinction Between Shares & Debentures	
117	Internal Financing- Retained Earning	
	Chapter – 22 Sources of Short Term Finance	
118,119	Sources of Short Term Finance	
120	Lease Financing- Meaning, Types of Leasing & Forms of Financial Lease	
	Chapter – 23 Human Resource Management	
121	Human Resource Management – Meaning, Objectives and Functions	

	Chapter – 24 Managing Growth & Sustenance	
122	Growth – Meaning & Importance	
123	Stages of Growth & Types of Growth Strategies – Expansion & Diversification	
124,125	Types of Growth Strategies – Merger, Advantages, Joint venture	
	Chapter – 25 Modernisation	
126	Technology – Meaning, Factors Affecting Selection Of Modern Technology, Benefits of Modernisation Business Plans	
127	Elements of selection of Technology, Types of Technology	
128	Government Schemes for Technology Upgradation	
	Chapter – 26 Franchising	
129	Franchising – Meaning, Types, Merits & Demerits	
	Chapter – 27 Entrepreneurial Discipline	
130	Entrepreneurship – Meaning, Evolution as a discipline	
	Chapter – 28 Ecology	
131	Ecology, Ecological Environment – Meaning and Types of Pollution	
132,133	Ethics of Environment, Importance of Pollution Control	
134	Regulatory Framework of Environment Protection in India	
135	Ecology & Business, Ecological Imbalances in India	
136	Preservation of Ecology	
	Chapter – 29 Consumer Protection	
137	Consumer Protection – Meaning, Need and Parties Responsible to Consumer Protection	
138	Consumer Responsibilities & Rights	
139,140	Unethical Issues Related With Consumers & Consumer Legislations In India	
141	Consumer Protection Act, 1986, Consumer Protection Councils	
142	Consumer Redressal Agencies	
	Chapter – 30 Contract	
143	Meaning & Elements of a Valid Contract	
144	Types of Contract, Modes of Discharge of Contract	
145	Multiple Choice Questions	

SUBJECT: ECONOMICS

M.M: 100

PART- A MICRO ECONOMICS		40 Marks
Unit - 1	INTRODUCTION TO MICRO ECONOMICS	4 Marks
Day 1	Meaning and Definitions of Economics	
Day 2	Difference between Micro and Macroeconomics	
Day 3	Scope and Importance of Macroeconomics	
Day 4	Nature of economics, Positive and normative economic	
Day 5	Meaning and causes of economic problems	
Day 6	Central problems of economy and its solutions	
Day 7	Meaning, Assumptions of Production Possibility Curve	

Day 8	Different points on PPC, shifts and Rotation of PPC	
Day 9	Opportunity Cost – Meaning	
Day 10	Marginal Opportunity Cost – Meaning	
Unit - 2	CONSUMER EQUILIBRIUM AND DEMAND	14 Marks
Day 11	Meaning of Consumer utility, total utility and marginal utility	
Day 12	Relation between Total Utility and Marginal Utility	
Day 13	Law of diminishing Marginal Utility	
Day 14	Consumer's equilibrium – Meaning and Assumptions	
Day 15	Consumer's Equilibrium - One Commodity Case And Two Commodities.	
Day 16	Consumer's Equilibrium - Two Commodities Case.	
Day 17	Demand - Concept , Individual Demand and Market demand curve	
Day 18	Demand schedule - Individual Demand and Market demand	
Day 19	Determinants of demand	
Day 20	Law of demand – Assumption and Exceptions	
Day 21	Reasons why demand curve slopes downwards	
Day 22	Difference between movement along and shifts in demand curve	
Day 23	Reason in shifts in demand curve	
Day 24	Cross price effects, relation between Income and Demand	
Day 25	Classification of goods with reference to demand	
Day 26	Revision of consumer Equilibrium and demand	
Day 27	Concept of elasticity of demand and its degree	
Day 28	Measurement /methods of price elasticity of demand	
Day 29	Factors affecting the price elasticity of demand	
Day 30	Practical problems related to elasticity of demand	
Day 31	Revision of elasticity of demand	
Unit - 3	PRODUCTION BEHAVIOUR AND SUPPLY	14 Marks
Day 32	Production Function – Meaning and types	
Day 33	Concept of TP, MP, AP of the variable factor	
Day 34	Relation between TP, MP, AP	
Day 35	Return to factor – concept	
Day 36	Law of variable proportion – Concept and Assumptions	
Day 37	Increasing return to factor – Causes Diminishing return to factor - Causes	
Day 38	Importance of law of Diminishing Return to factor	
Day 39	Cost – Concept and types	
Day 40	Types of cost of production –TC, AC, MC and its relation among them	
Day 41	Total cost, Fixed cost and Variable Cost	
Day 42	Concept , Schedule and curve of average fixed cost and average variable cost	
Day 43	Why is average cost curve U- Shaped?	
Day 44	Marginal cost – Concept and relation between TC and MC	
Day 45	Revision of cost and Production	
Day 46	Concept of Revenue (TR, MR, AR)	
Day 47	Relationship between TR, MR, AR	
Day 48	Producer's Revenue Curve	

Day 49	Producer's Equilibrium – Concept, Conditions	
Day 50	Producer's Equilibrium – TR-TC approach,	
Day 51	MR –MC approach	
Day 52	Producer's Equilibrium – Short and long run period analysis	
Day 53	Breakeven Point and Shut Down Point	
Day 54	Supply – concept , Quantity supply, Market Supply	
Day 55	Supply Schedule and Supply curve	
Day 56	Determinants of supply	
Day 57	Law of Supply – Concept , Assumption and Exception	
Day 58- 59	Change in quantity supplied and change in supply	
Day 60	Supply with GST, complementary goods and supplementary goods, Subsidy, input prices and technology	
Day 61	Price elasticity of supply – meaning and factors affecting elasticity of supply	
Day 62	Measurement and methods of price elasticity of supply	
Day 63	Practical Problems	
Unit - 4	FORMS OF MARKET AND PRICE DETERMINATION	8 Marks
Day 64	Market – concept and features	
Day 65	Forms or types of Market	
Day 66	Pure and Perfect Competition – A firm under perfect competition, demand curve of the firm under perfect competition & firm with normal profits in the long run	
Day 67	Equilibrium price – concept and determination under perfect competition	
Day 68	Assumptions and characteristics of price determination	
Day 69	Effect of change in demand on equilibrium price	
Day 70	Effect of change in supply on equilibrium price	
Day 71	Price ceiling and price floor concept	
Day 72	Time element and equilibrium price	
Day 73	Revision Of Market And Equilibrium Price	
	PART – B MACRO ECONOMICS	40 Marks
Unit - 5	NATIONAL INCOME AND AGGREGATES	10 Marks
Day 74	Concept of Macroeconomics & Scope of Macroeconomics and its definitions	
Day 75	Concept and types of good – final and intermediate goods	
Day 76	Consumer goods and Capital goods	
Day 77	Concept and components of investment	
Day 78	Gross and Net investment and Depreciation	
Day 79	Difference between stock and flow	
Day 80	Circular flow of Income - Concept & 2 Sector Model	
Day 81	Real flow and money flow	
Day 82	Importance of withdrawal and injection of circular flow of income	
Day 83	National Income – Meaning and importance	
Day 84	Basic concept of National Income – domestic territory of a country	
Day 85	Normal Resident of a country	
Day 86	Market price and factor cost concept in national income	

Day 87	Aggregates to National Income - GDPMP, GNPMP	
Day 88	NDPMP, NNPMP	
Day 89	GDPFC, GNPFC	
Day 90	NDPFC, NNPFC	
Day 91	National Disposal Income, Private Income, Personal Income	
Day 92	Personal disposal Income	
Day 93	National Disposal Income	
Day 94 -95	Practical Questions/ Numericals of National Income	
Day 96	Real and Nominal GDP, GDP Deflator	
Day 97	GDP and Welfare	
Day 98-99	Revision of National Income	
Day 100-101	Method of measuring National Income – Value added method	
Day 102-103	Income method	
Day 104-106	Expenditure method	
Unit - 6	MONEY AND BANKING	6 Marks
Day 106	Meaning and evolution of money	
Day 107	Barter system – meaning and drawbacks	
Day 108	Classification of money	
Day 109	Primary and secondary function of money	
Day 110	Contingent function of money	
Day 111	Indian monetary system and concept of money supply	
Day 112,113,114	Commercial Bank – function, Money creation and money multiplier	
Day 115-116	Central bank – functions	
Day 117	Difference between central bank and commercial bank	
Day 118	Instrument of monetary policy	
Day 119	Revision of Banking and Money	
Unit - 7	DETERMINATION OF INCOME AND EMPLOYMENT	12 Marks
Day 120	Aggregate demand – concept with two frame work	
Day 121	Aggregate demand function – Schedule and Curve	
Day 122	Components of Aggregate Demand	
Day 123	Concept and Components of Aggregate supply	
Day 124	Consumption function meaning and propensity to consume	
Day 125	Marginal propensity to consume	
Day 126	Propensity to save	
Day 127	Investment function and determinations	
Day 128	Full employment – concept , types of unemployment	
Day 129	Ex- Ante Saving And Investment, Ex-Post Saving And Investment	
Day 130	Equilibrium level of income and output	
Day 131	AD-AS approach (by Keynes and classical frame work	
Day 132	S-I approach	
Day 133	Full employment, underemployment and over employment	
Day 134	Investment Multiplier –Concept and working	
Day 135	Relation between MPC and multiplier	

Day 136	Practical problems of Investment multiplier	
Day 137	Deficit demand –causes and concept	
Day 138	Excess demand –concept and causes	
Day 139	Fiscal policy to correct excess and deficit demand	
Day 140	Monetary policy to correct excess and deficit demand	
Unit - 8	GOVERNMENT BUDGET AND THE ECONOMY	8 Marks
Day 141	Govt. Budget – meaning and objectives	
Day 142	Budget receipt – classification	
Day 143	Budget expenditure – classification	
Day 144	Development and Non- development expenditure planned and unplanned expenditure	
Day 145	Budget deficit	
Day 146	Comparison between balanced and unbalanced budget and downsizing the role of govt.	
Unit - 9	BALANCE OF PAYMENTS	8 Marks
Day 147	Meaning of balance of payment and balance of trade	
Day 148	Components of BOP	
Day 149	Balance of Payment – Surplus and Deficit	
Day 150	Foreign Exchange Rate – meaning and Types	
Day 151	Determination of Flexible rate of exchange in a free market –merits and demerits	
Day 152	Foreign Exchange Market –concept	
Day 153	Managed floating exchange rate system	
Day 154-155	Revision of foreign exchange rate, Balance of payment and govt. budget	

SUBJECT: PHYSICAL EDUCATION

Chapter 1	PHYSICAL FITNESS
Day 1	Introduction of Physical Fitness.
Day 2	Meaning and definition of Physical Fitness.
Day 3	Importance of Physical Fitness.
Day 4	Components of Physical Fitness
Day 5	Components of Physical Fitness
Day 6	Factor affecting Physical Fitness.
Day 7	Principles of Physical Fitness development.
Day 8	Types of Physical Fitness
Day 9	Means of Physical Fitness development (Aerobic & Anaerobic activities)
Day 10	Multiple choice questions
Day 11	Revision of Lesson 1
Chapter 2	TRAINING METHODS
Day 12	Meaning and definition of Training & Training Method
Day 13	Phases of Training (Preparatory, Competition & Transitional period)

Day 14	Warm up (Meaning & Importance)
Day 15	Cooling down (Meaning & Importance)
Day 16	Strength development Training Method (Isometric Exercise)
Day 17	Isotonic Exercise
Day 18	Isokinetic Exercise
Day 19	Method of Endurance (Continuous Method)
Day 20	Interval Training Method.
Day 21	Fartlek Training Method.
Day 22	Circuit Training Method.
Day 23	Speed Development Method (Acceleration Run)
Day 24	Pace Run training method.
Day 25	Multiple choice questions
Day 26	Revision of Lesson 1
Chapter 3	SOCIOLOGICAL ASPECT OF PHYSICAL EDUCATION
Day 27	Meaning and definition of Sociology
Day 28	Importance of Sociology.
Day 29	Meaning, Definitions & Importance of Sports Sociology.
Day 30	Games and Sports as Man's Cultural Heritage.
Day 31	Games and Sports as Man's Cultural Heritage (continue)
Day 32	Meaning & Types of Leader/ Leadership
Day 33	Qualities of good leader.
Day 34	Development of leadership qualities through the medium of sports
Day 35	Meaning of Group dynamic & factors influence group dynamics
Day 36	Value Education through Physical Education Programmes.
Day 37	Methods for the Development of values.
Day 38	Reasons for ineffective Development of values.
Day 39	Revision of Lesson 3
Day 40	Multiple choice questions
Chapter 4	MORAL EDUCATION
Day 41	Meaning and Definition, Importance of Moral Education
Day 42	Morality and Immorality.
Day 43	Why Moral values are Eroding?
Day 44	How to revive value system
Day 45	Moral Education through Physical Education.
Day 46	Multiple choice questions
Day 47	Revision of Lesson 4

Chapter 5	SPORTS AND ENVIRONMENT
Day 48	Meaning and Definition, Types of Environment.
Day 49	Essential Elements of Positive Environment.
Day 50	Elements of Positive Environment (Continue)
Day 51	Meaning and Definition, Importance of Sports Environment.
Day 52	Essential Elements of Sports Environment.
Day 53	Role of parents in improving Sports Environment
Day 54	Role of Individual for improving positive Environment
Day 55	Prevention of sports related accidents
Day 56	Effects of air pollution on sports person..
Day 57	Multiple choice questions
Day 58	Revision of Lesson 5
Chapter 6	YOGA
Day 59	Meaning and definition of Yoga.
Day 60	Importance of Yoga in games & sports
Day 61	Elements of Yoga
Day 62	Elements of Yoga (Continue)
Day 63	Yoga as an Indian Culture.
Day 64	Yoga as an Indian Culture (continue)
Day 65	Types of Yoga Asanas (Culture Asanas)
Day 66	Meditative Asanas & Relaxation Asanas)
Day 67	Role of Yoga in Sports
Day 68	Multiple choice questions
Day 69	Revision of Lesson 6
Chapter 7	CONCEPT OF MAJOR GAMES AND SPORTS
Day 70	Physical Fitness Test – (for male and female)
Day 71	History of Athletics
Day 72	Standard track
Day 73	Staggers (meaning & formula)
Day 74	Track events (short distance races)
Day 75	Middle & Long distance races
Day 76	Relay & Hurdle races
Day 77	Field events (jumping events - long jump)
Day 78	High jump
Day 79	Triple jump
Day 80	Pole vault

Day 81	Throwing events (shot put throw)
Day 82	Discuss Throw
Day 83	Javelin Throw
Day 84	Hammer Throw
Day 85	Revision of track events
Day 86	Revision of field events
Day 87	History and Measurement of Table -Tennis.
Day 88	Rules and Regulations of Table -Tennis
Day 89	Skills and Terminology of Table -Tennis
Day 90	History and Measurement of Basket ball
Day 91	Rules and Regulations of Basketball
Day 92	Skill and terminology of Basketball
Day 93	History and Measurement of Cricket
Day 94	Rules and Regulations of Cricket
Day 95	Skill and terminology of Cricket
Day 96	Revision of games
Chapter 8	SPORTS MEDICINE , FIRST AID AND REHABILITATION
Day 97	Meaning and definition of Sports medicine.
Day 98	Importance of Sports Medicine.
Day 99	Meaning of drugs for doping (types of doping)
Day 100	Drugs used in Doping/Sports
Day 101	Drugs used in Doping/Sports (continues)
Day 102	Meaning and definition of Sports injuries
Day 103	Types of injuries (Acute injuries- Dehydration)
Day 104	Heat Stroke
Day 105	Exercise Induces Asthma (EIA)
Day 106	Chronic Injuries(Tendonitis)
Day 107	Fractures & its types
Day 108	Stress fractures
Day 109	Dislocation
Day 110	Soft tissue Injuries
Day 111	Meaning, Aims & Principles of First Aid
Day 112	Meaning of Rehabilitation & its importance in sports (RICER)
Day 113	World Antidoping Agency (WADA) & National Antidoping Agency (NADA)
Day 114	Revision of Lesson

Day 115	Multiple choice questions
Day 116	Muscle Injuries (Sprain and Strain)

SUBJECT: COMPUTER SCIENCE

Total Days: 140

UNIT - 1	CENTRAL STRUCTURES IN PYTHON	No. of Days
➤ Conditional Statements		
• If		2
• If else		2
• If – elif – else		2
➤ Loops		
• While Loop		2
• For Loop		2
• Finite Loop And Infinite Loop		2
• Nested Loop		2
• Break And Continue		2
• Practice For Program		2
• Labs And Smart Class Session		2
UNIT - 2	WER –DEFINED FUNCTIONS IN PYTHON	
➤ Concept of a function		1
➤ Creating a function		2
➤ Calling a function		2
➤ Arguments, Arbitrary Arguments		5
➤ Slope of a variable (Local and Global)		3
➤ Functions returning values		4
➤ Practice for programs		2
➤ Labs and smart class session		1
UNIT - 3	INTRODUCTION TO OBJECT ORIENTED PROGRAMMING IN PYTHON	
Concept of object – oriented programming		1
Advantages of oops		3
Basic Elements of Oops: Clus, Encapsulation, Polymorphism, Inherentance, Data abstraction, object		5
➤ Access specifiers:		
• Public		2
• Private		
• Protected		
➤ Constructors		1
• Concept of constructor		1
• Types of constructor		4
• Default constructor		
• Parameterised constructor		1
• Concept of destructor		2
UNIT - 4	DATA STRUCTURES IN PYTHON	

➤ Arrays		
• Concept of array		1
• Creating an array		1
• Accessing elements of an array		2
• Array length with programs		1
➤ List		
• Concept Of List		1
• Creating A List		1
• List Items (Ordered, Changeable, Allow Duplicates, List Length)		2
➤ Dictionaries		
• Concept Of Dictionaries		1
• Creating A Dictionary		2
• Dictionary Items (Ordered, Changeable, Allow Duplicates, Dictionary Length)		2
➤ Tuple		
• Concept Of Tuple		1
• Creating A Tuple With One Item		2
• Tuple Items (Ordered, Changeable, Allow Duplicates, Tuple Length)		1
➤ Sets		
• Concept Of Sets		
• Creating Set		
• Set Items (Ordered, Changeable, Allow Duplicates, Tuple Length)		2
UNIT - 5	DATABASE AND SQL	
➤ Database and its advantages		1
➤ Relational data model		2
➤ Concept Of Domain, Relation, Attribute, Tuple, Candidate Key, Alternate Key, Primary key, foreign key		3
➤ SQL and its advantages		2
➤ Data types in SQL (number, char, date)		2
➤ DDL,DML,TCL, DCL		1
➤ SQL Commands		
• DDL Commands		
• Create		3
• Drop		
• Alter		
➤ DML Commands		
• Select		
• Insert		
• Update		3
• Delete		
➤ SQL Function		4

<ul style="list-style-type: none"> Sum () Avg. () Count. () Min. () Max. () 	
UNIT - 6	BOOLEAN LOGIC
➤ Boolean Operators And, Or, Not	2
➤ Truth table	2
➤ Basic Logic Gates And ,Or, Not	3
➤ Universal gates <ul style="list-style-type: none"> NAND NOR XOR 	4
➤ Laws Of Boolean Algebra <ul style="list-style-type: none"> Commutative law Associative law Distribution law 	4
➤ Principle of duality <div>With circuit and truth tables</div>	1
➤ Demorgans law (Prove these laws with truth tables and also draw circuit diagrams)	4
UNIT - 7	NETWORKING AND CYBER SECURTING
➤ Networking and its advantages	
➤ Types of networks <ul style="list-style-type: none"> L.A.N W.A.N M.A.V P.A.N 	
➤ Network topologies <ul style="list-style-type: none"> Bus, mesh, hybrid, graph, tree Star Ring 	
➤ Modem	
➤ Cyber safety and security <ul style="list-style-type: none"> Cyber bullying, preventive measures Computer safety and security Snooping Phishing Internet safety and ethics Safe social networking Safe email practices Dos and Don'ts for cyber safety 	

SHIKSHA NIKETAN SENIOR SECONDARY SCHOOL
JEEVAN NAGAR, JAMMU
12TH CLASS (ARTS STREAM)
SESSION: 2025-26

SUBJECT: ENGLISH		
CYCLE TEST 1	(15th May 2025)	M.M: 20
Chapter:	The Third Level The Last Lesson	
Poem:	My Mother at Sixty-Six	
Writing Skills:	Advertisement	
CYCLE TEST 2	(After summer Vacation)	M.M: 20
Chapter:	The Tiger King Lost spring	
Poem:	Keeping Quiet	
Writing Skills:	Invitations Job Application	
GOLDEN EXAM	(18th September 2025)	M.M: 80
Syllabus of Cycle Test 1 & 2		
Chapter:	Deep Water Journey to the End of the Earth The Rat trap Indigo On the face of it (Play)	
Poem:	A Thing of Beauty	
Reading Comprehensions:	Unseen Passage, Note-making	
Writing Skills:	Advertisement Invitation & replies Letter Article writing Job application Speech, Debate, Narratives	
Grammar:	Articles, Prepositions, punctuation, Tenses	
CYCLE TEST 3	(24th October 2025)	M.M: 20
Chapter:	The Enemy (vistas) Indigo Poets and Pancakes	
Poem:	A Roadside stand	
Grammar:	Modals, Conjunction	
Writing Skill:	Job application and Formal letter	
PRE BOARD I	(15th November 2025)	M.M: 80
Chapter:	The Interview Going Places Memories of child hood (vistas)	

Poems:	Aunt Jennefer's Tigers	
Grammar:	All	
Writing Skill:	All	
Syllabus of Golden test and Cycle test 3 rd		
PRE BOARD II	(after winter vacations)	M.M: 80
All Syllabus		
SUBJECT: MATHEMATICS		
CYCLE TEST 1	(15th May 2025)	M.M. 20
Chapter 3	Matrices	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Chapter 4	Determinants	
Chapter 2	Inverse Trigonometric functions	
GOLDEN EXAM	(18th September 2025)	M.M. 80
Syllabus of Cycle Test 1 & 2		
Chapter 1	Relations & functions	
Chapter 5	Continuity & differentiability	
Chapter 6	Application of derivatives	
CYCLE TEST 3	(24th October 2025)	M.M. 20
Integrations upto Definite Integrals		
PRE BOARD – I	(15th November 2025)	M.M. 80
Golden Exam Syllabus +		
Integrations (Integrals)		
Application of Integrals		
Differential equations		
Vector Algebra		
Three Dimensional Geometry		
PRE BOARD II	(after winter vacations)	M.M: 80
All Syllabus		
SUBJECT: ECONOMICS		
CYCLE TEST 1	(15th May 2025)	M.M. 20
Unit 1	Introduction to micro economic	
Unit 2	Consumer's equilibrium	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Unit 2	Demand and elasticity of demand	
Unit 3	Theory of Supply	
GOLDEN EXAM	(18th September 2025)	M.M. 100
	Complete micro economic	
	Syllabus covered under by Cycle Test 1 & 2	
CYCLE TEST 3	(24th October 2025)	M.M. 20
Unit 5	National Income & Aggregates	
Unit 6	Introduction	
	Circular flow & basic concept	
PRE BOARD – I	(15th November 2025)	M.M. 100

Micro economics complete		
Macro-economic U-5, U-6		
Unit 7	Money and Banking	
Unit 8	Govt. Budget	
PRE BOARD – II	(after winter vacations)	M.M. 100
Complete Syllabus		
SUBJECT: POLITICAL SCIENCE		
CYCLE TEST 1	(15th May 2025)	M.M. 20
Part A		
Chapter – 1	Disintegration of U.S.S.R & End of Bi-Polarity	
Part B		
Chapter – 1	Nation building & its problem	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Part A		
Chapter – 2	Alternative Centre of Power	
Chapter – 3	South Asia in Contemporary World	
Part B		
Chapter – 2	Era of one party Dominance	
GOLDEN EXAM	(18th September 2025)	M.M. 100
Revision of Cycle Test 1 & Cycle Test 2		
Part A		
Chapter – 4	United Nation Organisation	
Chapter – 5	Globalisation	
Part B		
Chapter – 3	Politics of Planned Development	
CYCLE TEST 3	(24th October 2025)	M.M. 20
Part A		
Chapter – 6	Security in Contemporary World	
Part B		
Chapter – 4	Era of Foreign Policy	
PRE BOARD – I	(15th November 2025)	M.M. 100
Revision of Cycle Test 1, 2, 3 and Golden Test		
Part A		
Chapter – 7	Environment & its pollution	
Part B		
Chapter – 5	Challenged to & restoration of Congress	
Chapter – 6	Crisis of Constitutional Order Chapter – 7	
PRE BOARD II	(after winter vacations)	M.M: 100
Part A		
Full Syllabus		
Part B		
Ch-1, 2, 3, 4, 5, 6		
Chapter – 7	Role of Regional Aspiration & Conflicts	
Chapter – 8	Recent Development in Indian Politics	

SUBJECT: SOCIOLOGY

CYCLE TEST 1	(15th May 2025)	M.M. 20
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Unit 2	Demography and Society	
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CYCLE TEST 2	(After summer Vacation)	M.M. 20
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Unit 3	Social Institutions	
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Unit 7	Processes of social Change in India	
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GOLDEN EXAM	(18th September 2025)	M.M. 80
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Unit 2	Demography and Society	
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Unit 3	Social Institutions	
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Unit 4	Social Inequality	
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Unit 5	Challenges to National Integration	
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Unit 7	Processes of Social Change in India	
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Unit 8	Change and Development in Rural Society	
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CYCLE TEST 3	(24th October 2025)	M.M. 20
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Unit 6	Methodology	
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Unit 9	Globalisation and Social Change	
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PRE BOARD – I	(15th November 2025)	M.M. 80
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Unit 2	Demography and Society	
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Unit 3	Social Institutions	
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Unit 4	Social Inequality	
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Unit 5	Challenges to National Integration	
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Unit 6	Methodology	
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Unit 7	Processes of Social Change in India	
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Unit 8	Change and Development in Rural Society	
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Unit 9	Globalisation and Social Change	
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Unit 10	Mass media and Society	
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PRE BOARD II	(after winter vacations)	M.M: 80
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Full Syllabus		
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SUBJECT: GEOGRAPHY

CYCLE TEST 1	(15th May 2025)	M.M: 20
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Part A

Ch. 1	Human Geography- nature and scope	
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Ch. 2	Human Population	
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Ch. 3	Human Development	
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CYCLE TEST 2	(After summer Vacation)	M.M: 20
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Part B

Ch. 1	Population-distribution, density and growth	
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Ch. 2	Human Settlement	
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Ch. 3	Land Resources	
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GOLDEN EXAM	(18th September 2025)	M.M: 70
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Part B

Ch. 2	Water Resources	
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Part A

Ch. 4	Primary Activities	
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Ch. 5	Secondary Activities	
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Note:	All Syllabus of Cycle Test 1 and Cycle Test 2	
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CYCLE TEST 3	(24th October 2025)	M.M: 20
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Part B

Ch. 5	Mineral and Energy Resources	
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Ch. 4	Planning in India	
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Part A

Ch. 3	Tertiary Activities	
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Ch. 3	Quaternary Activities	
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PRE BOARD I	(15th November 2025)	M.M: 70
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Part A

Ch. 8	Transport and Communication	
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Ch. 9	International Trade	
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Part B

Ch. 7	Transport and Communication	
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Note:	All Syllabus of Golden Exam and Cycle Test 3.	
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PRE BOARD II	(after winter vacations)	M.M: 70
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Part B

Ch. 8	International Trade	
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Ch. 9	Geographical Perspective on	
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	Selected issues and problems	
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Note:	All Syllabus of cycle test, golden test and Pre – Board 1	
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SUBJECT: HISTORY

CYCLE TEST 1	(15th May 2025)	M.M: 20
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Chapter1	Bricks, Beads and Bones	
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Chapter 2	Kings, Farmers and Towns	
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CYCLE TEST 2	(After summer Vacation)	M.M: 20
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Chapter 3	Kinship, Class and Class	
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Chapter 4	Thinkers, Beliefs and Buildings	
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GOLDEN EXAM	(18th September 2025)	M.M: 80
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Chapter 5	Through the eyes of the Travellers	
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Chapter 6	Bhakti – Sufi Traditions	
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Note:	All Syllabus of Cycle Test 1 and Cycle Test 2	
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CYCLE TEST 3	(24th October 2025)	M.M: 20
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Chapter 7	An Imperial capital: Vijayanagra	
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Chapter 8	Peasant, Zamindars and the State	
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PRE BOARD I	(15th November 2025)	M.M: 80
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Chapter 7	Colonialism and the country side	
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Chapter 10	Rebels and the Raj	
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Note:	All Syllabus of Golden Exam and Cycle Test 1,2,3.	
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PRE BOARD II	(after winter vacations)	M.M: 80
Chapter 11	Mahatma Gandhi and Nationalist movement	
Chapter 12	Farming of the Constitution	
Note: All Syllabus of Pre – Board 1		
SUBJECT: EDUCATION		
CYCLE TEST 1	(15th May 2025)	M.M. 20
Unit 1	Curriculum	
Unit 2	Co-curricular Activities	
	<ul style="list-style-type: none"> Meaning, Types and Importance of Co-curricular Activities Types of Co-curricular Activities Literary Activities <ul style="list-style-type: none"> Debate School Magazine Library Aesthetic & Cultural Activities <ul style="list-style-type: none"> Drama Educational Tours Folk Activities 	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Unit 2	Types of Co-curricular Activities	
	<ul style="list-style-type: none"> Social Activities <ul style="list-style-type: none"> Morning Assembly N.S.S Physical Activities <ul style="list-style-type: none"> Games & Sports N.C.C Scouting 	
Unit 4	Population Education	
GOLDEN EXAM	(18th September 2025)	M.M. 100
Unit 1	Curriculum	
Unit 2	Co-curricular Activities	
Unit 3	Development of education in J & K	
Unit 4	Population Education	
Unit 5	Educational Thinkers	
Unit 6	Statistics in Education	
CYCLE TEST 3	(24th October 2025)	M.M. 20
Unit 7	Human Growth & Development	
Unit 9	Learning	
PRE BOARD – I	(15th November 2025)	M.M. 100
Unit 8	Mental Health & development	
Unit 10	Adjustment & Maladjustment	
Note: All Syllabus of Golden Exam and Cycle Test 1,2,3		
PRE BOARD II	(after winter vacations)	M.M: 100

Unit 3 Development of education in J & K
Note: All Syllabus of cycle test, golden test and Pre – Board 1

SUBJECT: ENVIRONMENT SCIENCE		
CYCLE TEST 1	(15th May 2025)	M.M. 20
Chapter 1	Air and Noise Pollution	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Chapter 2	Water Pollution	
GOLDEN EXAM	(18th September 2025)	M.M. 70
Chapter 1	Air and Noise Pollution	
Chapter 2	Water Pollution	
Chapter 3	Soil Degradation	
Chapter 4	Solid and Hazardous Waste Management	
CYCLE TEST 3	(24th October 2025)	M.M. 20
Chapter 5	Biodiversity Management	
PRE BOARD – I	(15th November 2025)	M.M. 70
Complete Syllabus upto 3 rd cycle test +		
Chapter 6	Global Environmental Issues	
PRE BOARD II	(after winter vacations)	M.M: 70
Whole syllabus of 12 th EVS		

SUBJECT: PHYSICAL EDUCATION		
CYCLE TEST 1	(15th May 2025)	M.M. 20
Chapter 1	Physical Fitness	
Chapter 2	Meaning of Training and sports training, warming up and cooling down	
CYCLE TEST 2	(After summer Vacation)	M.M. 20
Chapter 2	Training Methods	
Chapter 3	Sociology Aspects of Physical Education	
GOLDEN EXAM	(18th September 2025)	M.M. 70
Chapter 1	Physical Fitness	
Chapter 2	Training Methods	
Chapter 3	Sociology Aspects of Physical Education	
Chapter 4	Moral Education	
CYCLE TEST 3	(24th October 2025)	M.M. 20
Chapter 5	Sports and Environment	
Chapter 6	Yoga	
Chapter 8	Sports Medicine First Aid and Rehabilitation	
PRE BOARD – I	(15th November 2025)	M.M.70
Cycle 1 + Cycle 2 + Cycle 3 + Golden Exam.		
Chapter 7	Concept of major Games/Sports	
PRE BOARD II	(after winter vacations)	M.M: 70
Cycle 1 + Cycle 2 + Cycle 3 + Golden Exam + Pre board 1		
Chapter 8	Sports Medicine First Aid and Rehabilitation	

SUBJECT: COMPUTER SCIENCE**CYCLE TEST 1 (15th May 2025) M.M. 20**

Conditional statements in Python

CYCLE TEST 2 (After summer Vacation) M.M. 20

Boolean Logic

GOLDEN EXAM (18th September 2025) M.M. 70**Syllabus of Cycle Test 1 + Cycle Test 2**

Functions

Oops

CYCLE TEST 3 (24th October 2025) M.M. 20

Database & SQL

PRE BOARD – I (15th November 2025) M.M. 70**Syllabus of Cycle Test 1 + Cycle Test 2 + Golden Exam + Cycle Test 3**

Data Structures

PRE BOARD – II (after winter vacations) M.M. 70**Cycle Test 1 + Cycle Test 2 + Golden Exam + Cycle Test 3 + Pre-board -1**

Data Structures

Networking

Complete Syllabus

SUBJECT: HINDI**CYCLE TEST 1 (15th May 2025) M.M. 20**

भारतेन्दु हरिश्चन्द्र (पद, मुकरियाँ)

मैथिलीशरण गुप्त (हम कौन थे क्या हो गए और क्या होंगे अभी)

भारतेन्दु युग की विशेषताएँ

शब्द भंडार:- पर्यावाची और विलोम शब्द

CYCLE TEST 2 (After summer Vacation) M.M. 20**SUBJECT: ENGLISH****M.M: 100**

S.NO.	CHAPTERS
1	Discussion of Syllabus
2	Introduction of the Chapter “The Last Lesson”
3	Explanation of the Chapter “The Last Lesson”
4	Discussion of Q/Answer of Chapter “The Last Lesson”
5	Worksheet of “The Last Lesson”
6	Introduction of Poem “My Mother at Sixty – Six”
7	Explanation of the Poem and Discussion of Q/Answer with ‘Poetic Devices’ “My Mother at Sixty – Six”
8	Worksheet of “My Mother at Sixty – Six”

9	Introduction of the Chapter “Lost Spring”
10	Explanation of the Chapter “Lost Spring”
11	Discussion of Q/Answer of Chapter “Lost Spring”
12	Worksheet of “Lost Spring”
13	Introduction of the Chapter “Deep Water”.
14	Explanation of the Chapter “Deep Water”
15	Explanation of the Chapter “Deep Water”
16	Discussion of Q/Answer “ Deep Water”
17	Worksheet of “Deep Water”
18	Introduction and Explanation of Poem ‘Keeping Quiet’
19	Discussion of Q/Answer of Poem ‘Keeping Quiet’
20	Worksheet of “Keeping Quiet”
21	Introduction of the chapter ‘The Rattrap’
22	Explanation of the chapter ‘The Rattrap’
23	Explanation of the chapter ‘The Rattrap’
24	Discussion of Q/Answer of the chapter ‘The Rattrap’
25	Worksheet of ‘ The Rattrap’
26	Introduction and Explanation of Poem ‘A Thing of Beauty’
27	Discussion of Q/Answer of the Poem ‘A Thing of Beauty’
28	Worksheet of ‘A Thing of Beauty’
29	Introduction of the chapter ‘Indigo’
30	Explanation of the chapter ‘Indigo’
31	Explanation of the chapter ‘Indigo’
32	Discussion of Q/Answer of the chapter ‘Indigo’
33	Worksheet of ‘Indigo’
34	Introduction of the Poem ‘A Roadside stand’ with ‘Poetic Devices’
35	Explanation of the Poem ‘A Roadside stand’ with Poetic Devices
36	Discussion of Q/Answer
37	Worksheet of A Roadside stand
38	Introduction of the Chapter ‘Poets and Pancakes’
39	Explanation of the Chapter ‘Poets and Pancakes’
40	Explanation of the Chapter ‘Poets and Pancakes’
41	Explanation of the Chapter ‘Poets and Pancakes’
42	Discussion of Q/Answer
43	Worksheet of Poet and Pancakes
44	Introduction of the Chapter ‘The Interview’ (Part I-II)
45	Explanation of the chapter ‘The Interview’(Part- I)
46	Explanation of the chapter ‘The Interview’(Part- II)
47	Discussion of Q/Answer
48	Worksheet of ‘The Interview’
49	Introduction of the Poem ‘Aunt Jennifer’s Tigers’
50	Explanation and Discussion of Q/Answer of ‘Aunt Jennifer’s Tigers’

51	Introduction of the Chapter ‘Going Places’
52	Explanation of the Chapter ‘Going Places’
53	Explanation of the Chapter ‘Going Places’
54	Discussion of Q/Answer
55	Worksheet of Going Places
56	Introduction of the Chapter ‘The Third Level’
57	Explanation of the Chapter ‘The Third Level’
58	Discussion of Q/Answer
59	Worksheet of ‘The Third Level’
60	Introduction of the Chapter ‘The Tiger King’
61	Explanation of the Chapter ‘The Tiger King’
62	Explanation of the Chapter ‘The Tiger King’
63	Discussion of Q/Answer
64	Worksheet of ‘The Tiger King’
65	Introduction of the Chapter ‘Journey to the End of the Earth’
66	Explanation of the Chapter
67	Explanation of the Chapter and Discussion of Q/Answer
68	Worksheet of the Chapter
69	Introduction of the Chapter ‘The Enemy’
70	Explanation of the Chapter
71	Explanation of the Chapter
72	Explanation of the Chapter
73	Explanation of the Chapter
74	Explanation of the Chapter
75	Discussion of Q/Answer
76	Worksheet of the Chapter
77	Introduction of the Play ‘On the face of it’
78	Explanation of the Play
79	Explanation of the Play
80	Explanation of the Play
81	Discussion of Q/Answer
82	Worksheet of the Chapter
83	Introduction of the Chapter ‘Memories of Childhood’
84	Explanation of the Chapter ‘Memories of Childhood’
85	Discussion of Q/Answer
86	Worksheet of the Chapter
WRITING SKILLS	
87	Note making Explanation and format
88	Note making Practice
89	Advertisement format
90	Practice of advertisement
91	Invitation and Replies format
92	Practice of Invitation and Replies
93	Format of Letter Writing
94	Practice of Letter Writing

95	Format of Job Application
96	Practice of Job Application
97	Format of Article Writing
98	Practice of Article Writing
99	Format of Debate Writing
100	Practice of Debate Writing
101	Format of Speech Writing
102	Practice of Speech Writing
103	Format of Narrative Writing
104	Practice of Narrative Writing
GRAMMAR	
105	Tenses Explanation and usage
106	Tenses Explanation and usage
107	Tenses Explanation and usage
108	Tenses Explanation and usage (Practice)
109	Reflexive Pronouns Explanation and usage
110	Practice of Reflexive Pronouns
111	Narration Explanation and usage
112	Narration Explanation and usage
113	Narration Explanation and usage
114	Practice of Narration
115	Conjunction Explanation and usage
116	Practice of Conjunction
117	Preposition Explanation and usage
118	Preposition Explanation and usage
119	Practice of Preposition
120	Change of voice Explanation and usage
121	Change of voice Explanation and usage
122	Practice of Change of Voice

विषय: हिंदी

पाठ्यपुस्तक: अनुराग

पस्तुक	प्रकरण	दिवस	उपप्रकरण
पद्य भाग	पद	3	भारतेंद्र, हरिचन्द्र (परिचय) सार, काव्यांश
	मुकर्रिया	3	प्रश्नोत्तर, सार, काव्यांश
पद्य भाग	हम कौन थे, क्या हो गए	2	कवि परिच, प्रश्नोत्तर, सार, काव्यांश
साहित्य	भारतेंद्र	2	युग की विशेषताएँ
व्याकरण	शब्द भंडार	3	पर्यावाची, विलोम, वाक्यांश
पद्य भाग	कौन पहुँचा देगा उस पार	2	कवि परिचय वस्तुनिष्ठ प्रश्नोत्तर
		2	काव्यांश, सार विस्तारपूर्वक प्रश्नोत्तर
		3	सप्रसंग वयाख्या

पद्य भाग	वह तोडती पत्थर	3	कवि परिचय, वस्तुिन्ध प्रश्नोत्तर
		2	काव्यांश, सार प्रश्नोत्तर
साहित्य	दिवेदी	2	दिवेदी युग की विशेषताएँ
गद्य भाग	काले मेघा पानी दे	3	लेखक परिचय, सार वस्तुिन्ध
		3	प्रश्नोत्तर (विस्तारपूर्वक)
पद्य भाग	उनको प्रमाण	2	कवि परिचय, काव्यांश
		2	वस्तुिन्ध और विस्तारपूर्वक प्रश्नोत्तर
पद्य भागअभ्यास	साँप	3	कवि परिचय, काव्यांश
		3	प्रश्नोत्तर, वस्तुिन्ध, सार
		2	सप्रसंग वयाख्या
साहित्य	छायावाद	2	छायावाद की विशेषताएँ
व्याकरण	संधि, उपसर्ग, प्रत्यय	3	पिरभाषा, अभ्यास
पद्य भाग	कमल आज	3	कवि परिचय, काव्यांश, सार
	उनकी जय बोल	3	वस्तुिन्ध और विस्तारपूर्वक प्रश्नोत्तर
पद्य भाग	मातृभाषा	3	कवि परिचय, काव्यांश, सार
		3	वस्तुिन्ध और विस्तारपूर्वक प्रश्नोत्तर
		3	सप्रसंग वयाख्या
गद्य भाग	भिकतन	3	परिचय, सार, वस्तुिन्ध प्रश्नोत्तर
		3	विस्तारपूर्वक प्रश्नोत्तर
साहित्य	प्रगतिवाद	2	प्रगतिवाद की विशेषताएँ
व्याकरण	वर्ण विचार	2	पिरभाषा, भेद, उदाहरण
गद्य भाग	बाज़ार दर्शन	3	परिचय, सार, वस्तुिन्ध प्रश्नोत्तर
		2	विस्तारपूर्वक प्रश्नोत्तर
पद्य भाग	कुछ सूत्र जो एक किसान बाप ने बेटे को दिए	3	कवि परिचय, काव्यांश
		2	वस्तुिन्ध और विस्तारपूर्वक प्रश्नोत्तर
		3	वयाख्या, प्रश्नोत्तर
साहित्य	प्रयोगवाद	2	प्रयोगवाद की विशेषताएँ
	भाव-पल्लव	3	किंवताओं का भाव-पल्लव
पद्य भाग	बच्चे काम परजा रहे हैं	3	कवि परिचय, सार, काव्यांश
		2	प्रश्नोत्तर वस्तुिन्ध
		2	विस्तारपूर्वक प्रश्नोत्तर

पद्य भाग	मेरा गाँव	3	कवि परिचय, सार, काव्यांश
		2	प्रश्नोत्तर वस्तुिन्ध
		2	विस्तारपूर्वक प्रश्नोत्तर
		4	सप्रसंग वयाख्या
गद्य भाग	शिरीष के फूल	3	लेखक परिचय, सार
		3	वस्तुिन्ध, विस्तारपूर्वक प्रश्नोत्तर
व्याकरण	संवाद लेखन	3	संवाद लेखन का अभ्यास
व्याकरण	गद्यांश	2	अपिठत गद्यांश
	काव्यांश	2	अपिठत काव्यांश
व्याकरण	भाव-पल्लव	3	अन्य किंवताओं के भाव-पल्लव
व्याकरण	समास	3	पिरभाषा, भेद, अभ्यास
		3	पुनरावृत्ति (चित्र- चित्रण), सार
गद्य भाग	भिकतन	3	प्रश्नोत्तर (पुरान्वृति)
गद्य भाग	बाज़ार दर्शन	4	पुरान्वृति सम्पूर्ण पाठ की

SUBJECT: MATHEMATICS

Total No. of Lectures: 131

DAYS	CHAPTER - 1 RELATION AND FUNCTIONS	No. of Lect. = 07
Day 1	Basic of Relations and its Types Ex.1.1 – Q1 (i) (iv), Q3, (Problems based on Relations)	
Day 2	Ex 1.1 – Q5, Q7, Q9, (Problems based on Equivalence Relations)	
Day 3	Ex 1.1- Q14 and Basic of function & its Types	
Day 4	Ex. 1.2 - Q1, Q3, Q6 (Problems on Infectivity and Subjectivity)	
Day 5	Ex. 1.2 – Q9, Q10, Q12 (Problems on Objectivity Functions)	
Day 6	Misc. Exercise – Q2, Q5	
Day 7	Revision and Doubts	
	CHAPTER- 2 INVERSE TRIGONOMETRIC FUNCTIONS	No. of Lect. = 06
Day 8	Introduction of Inverse Trigonometric function & concept of Principal Branch & Principal value	
Day 9	Ex.2.1- Q1, Q4, Q7, Q9, Q11, Q11(Problem on Principal value)	
Day 10	Ex 2.1 - Q1, Q4, Q6, Q11, Q12, Q13	
Day 11	Misc. Exercise :- Q1, Q4, Q6, Q9, Q12, Q14	
Day 12	Revision and Doubts	
Day 13	Objectives Types Questions	
	CHAPTER - 3 MATRICES	No. of Lect. = 12
Day 14	Introduction of Matrix & its types	

Day 15	Concept of Equality of matrices. And Ex. 3.1 Q1,Q4,Q6 (problem on equality of matrices)	
Day 16	Ex 3.1 - Q7, Q10 (problem on equality of matrices)	
Day 17	Ex 3.2 Concept of Addition, Subtraction & Multiplication of matrices Q1, Q3	
Day 18	Ex 3.2 – Q6, Q7 (i) Q10, Q12, Q13 (problems on multiplication of two matrices	
Day 19	Q16, Q18 (Problems on Multiplication of two matrix)	
Day 20	Ex 3.3 Concept of Transpose of a matrix, symmetric & skew symmetric matrix, Q1, Q3(i) Q6(i)	
Day 21	Ex 3.3 - Q8 & Q10 (problems on symmetric and skew symmetric matrix	
Day 22	Ex 3.4 - Q1 Concept of Inverse of a matrix & Theorem 4	
Day 23	Miscellaneous Exercise Q1, Q4, Q8, Q9, Q10	
Day 24	Revision and Doubts	
Day 25	Objectives Types Questions	
	CHAPTER - 4 DETERMINANTS	No. of Lect. = 11
Day 26	Basic of determinants and Ex 4.1 Q 1, Q3, Q5	
Day 27	Ex 4.1 - Q8 Concept of area of the triangle & concept of collinear.	
Day 28	Ex 4.2 – Q1(i), Q2, Q3(i) Concept of area of triangle	
Day 29	Ex 4.2 – Q4 (i) Concept of Minor and Cofactors.	
Day 30	Ex 4.3 – Q1 (i) , Q3, Q5 Concept of Inverse and its properties	
Day 31	Ex 4.4 - Q1, Q7, Q11 (problems on Inverse)	
Day 32	Ex 4.4 - Q1, Q7, Q11 (problems on Inverse)	
Day 33	Ex 4.5 – Q1, Q6 Concept of matrix method & consistency of the system	
Day 34	Ex 4.5 – Q1, Q3, Q7	
Day 35	Miscellaneous Exercise Q1, Q3, Q7	
Day 36	Miscellaneous Exercise Q8 & Revision and Doubts	
	CHAPTER – 5 CONTINUITY AND DIFFERENTIABILITY	No. of Lect. = 16
Day 37	Concept of Continuity and Ex 5.1 - Q1, Q5, Q7, Q7	
Day 38	Ex 5.1 – Q8, Q14, Q17, Q18 (problems on continuity of the function)	
Day 39	Ex 5.1 – Q23, Q26, Q30, Q31 (problems on continuity)	
Day 40	Ex 5.2 – Q1, Q4, Q8 Concept of derivative	
Day 41	Ex 5.2 –Q9 Concept of Implicit & Explicit function and Ex 5.3 Q1, Q4	
Day 42	Ex 5.3 –Q7, Q8, Q11, Q15 (Problems on Implicit and Explicit of the function)	
Day 43	Ex 5.4 – Q1, Q4, Q8, Q10	
Day 44	Ex 5.5 – Q1, Q13, Q15 (Logarithms differentiation)	
Day 45	Ex 5.5 – Q4, Q8, Q11, Q12 (Problems on Logarithms differentiation)	
Day 46	Ex 5.5 – Q12 Concept of Parametric form	
Day 47	Ex 5.6 – Q1, Q3, Q6 (Problems on Parametric function)	
Day 48	Ex 5.6 – Q8, Q10, Q11	
Day 49	Ex 5.7 –Q1, Q6, Q8, Q11 Concept of second order derivative	
Day 50	Ex 5.7 – Q13, Q15, Q17 (problems on second derivative)	
Day 51	Misc. Ex. Q2, Q6, Q12, Q13	

Day 52	Misc. Ex. Q16, Q18, Q22	
	CHAPTER- 6 APPLICATION OF DERIVATIVES	No. of Lect. = 12
Day 53	Ex 6.1 – Q1, Q3, Q5, Q7 Concept of Rate of change	
Day 54	Ex 6.1 – Q9, Q11, Q12, Q16 (Problems on rate of change)	
Day 55	Ex 6.2 – Q1, Q3, Q7, Q9 Concept of Increasing and Decreasing Function	
Day 56	Ex 6.2 – Q5, Q15, Q10 (Problems on Increasing and Decreasing function)	
Day 57	Ex 6.3 – Q1, Q2 Concept of Maxima & Minima without derivative method	
Day 58	Ex 6.3 – Q5 & Q12 Concept of Absolute Maxima & Absolute Minima	
Day 59	Ex 6.3 – Q3 Concept of Local Maxima & Local Minima by 2 nd derivative	
Day 60	Misc. Ex – Q10 Concept of Maxima & Minima by 1 st derivative Method	
Day 61	Ex 6.3 Q7, Q19, Q22	
Day 62	Ex – Q26 (Problems on Application of Maxima & Minima)	
Day 63	Misc. Ex – Q1, Q7, Q11	
Day 64	Revision and doubts	
	CHAPTER- 7 INTEGRALS	No. of Lect. = 22
Day 65	Ex 7.1 – Q1& Q5 Basic of Integral & Concept of Antiderivative by the method of Inspection	
Day 66	Ex 7.1 – Q 7, Q10, Q12, Q14, Q19, Q20	
Day 67	Substitution Method (concept) Ex 7.2 – Q1, Q3, Q5, Q9, Q11, Q14	
Day 68	Ex 7.2 –Q18, Q20, Q25, Q29, Q32, Q34, Q36	
Day 69	Ex 7.3 (concept) & Q1, Q3, Q7, Q9	
Day 70	Ex 7.3 – Q1, Q15, Q18, Q21, Q22	
Day 71	Six Special formula & Ex 7.4 – Q1, Q4, Q8, Q9	
Day 72	Ex 7.4 –Q11, Q14, Q16, Q19, Q23	
Day 73	Ex 7.5 (concept of partial fraction) Q1, Q4, Q9, Q13	
Day 74	Ex 7.5 –Q15, Q15, Q17, Q16	
Day 75	Ex 7.5 –Q18, Q19 (problem on partial fraction)	
Day 76	Concept of Integration by parts Ex 7.6 –Q1, Q3, Q5, Q8	
Day 77	Ex 7.6 –Q11, Q17, Q18, Q21 (problem on integration by parts)	
Day 78	Ex 7.7 – Q1, Q3, Q7, Q8	
Day 79	Ex 7.8 – Q1, Q4, Q5, Q7 (problem on definite integrals)	
Day 80	Ex 7.8 – Q12, Q15, Q17, Q18	
Day 81	Ex 7.9 –Q2, Q3, Q5, Q8 & Concept of Definite integrals	
Day 82	Ex 7.10 – Q1, Q4, Q5, Q8	
Day 83	Ex 7.10 – Q10, Q12, Q14, Q17 (problem based on properties of Integrals)	
Day 84	Misc. Ex – Q1, Q7, Q10, Q15	
Day 85	Misc. Ex – Q19, Q25, Q29, Q31, Q34	
Day 86	Misc. Ex – Q36, Q37	
	CHAPTER - 8 APPLICATION OF INTEGRALS	No. of Lect. = 04
Day 87	Ex 8.1 concept of area under simple curve	
Day 88	Ex 8.1 – Q1, Q3, Q4	
Day 89	Misc. Ex – Q1, Q2, Q3(problem on area under curve)	
Day 90	Revision & doubts	
	CHAPTER - 9 DIFFERENTIAL EQUATION	No. of Lect. = 11

Day 91	Ex 9.1 Concept of Differential Equation, Order of Differential Equation & Degree of Differential Equation
Day 92	Ex 9.2 – Q1, Q3 Concept of the solution of the differential equation
Day 93	Ex 9.2 – Q7, Q9, Q10, Q12 concept of variable separable method
Day 94	Ex 9.3 – Q1, Q4, Q6, Q10
Day 95	Ex 9.3 – Q13, Q14, Q16 & concept of homogeneous differential equation
Day 96	Ex 9.4 – Q1, Q2, Q8
Day 97	Ex 9.4 – Q10, Q13, Q14 (problem on homogeneous differential equation)
Day 98	Ex 9.5 – Q1, Q3, Q8, Q12 & Concept of Linear differential equation
Day 99	Ex 9.5 – Q13, Q15, Q17 (problem on Linear differential equation)
Day 100	Misc. Ex Q1, Q4, Q6
Day 101	Misc. Ex Q11, Q13, Q2 (iii)
	CHAPTER - 10 VECTOR ALGEBRA No. of Lect. = 11
Day 102	Ex 10.1 Q1, Q3, Q5 Concept of scalar & vector quantities and its types
Day 103	Ex 10.2 – Q1, Q3, Q6 Concept of equality of two vector & addition/ subtraction of two vectors
Day 104	Ex. 10.2 – Q7, Q10, Q11, Q14
Day 105	Ex. 10.2 - Q15, Q17 & concept of product of two vectors & scalar of two products and projection
Day 106	Ex. 10.3 - Q1, Q4, Q6, Q9
Day 107	Ex. 10.3 – Q3, Q15, Q16 (problem based on scalar product)
Day 108	Ex 10.4 – Q1, Q3, Q5 concept of vector product & area of triangle and parallelogram
Day 109	Ex 10.4 – Q9, Q10, Q11 (problem based on cross product)
Day 110	Misc. Ex. Q1, Q4, Q11
Day 111	Misc. Ex. Q12, Q13, Q16, Q18
Day 112	Revision and doubts
	CHAPTER -11 THREE DIMENSIONAL GEOMETRY No. of Lect. = 5
Day 113	Ex 11.1 – Q1, Q2, Q4 concept of direction & direction cosines (concept of angle between lines)
Day 114	Ex 11.2 - Q4, Q6, Q8 (i), Q9 (i) (concept of shortest distance)
Day 115	Ex 11.2 - Q12 and Q13 concept of shortest distance between two line
Day 116	Misc. Ex.- Q1, Q3, Q5
Day 117	Revision and doubts
	CHAPTER -12 LINEAR PROGRAMMING No. of Lect. = 4
Day 118	Basic of Linear Programming, Feasible region, Feasible solution, Optional solution & Objective function
Day 119	Ex. 12.1 - Q1, Q2 (problem based L.P.P)
Day 120	Ex. 12.1 - Q5, Q6 (problem based L.P.P)
Day 121	Ex. 12.1 - Q8, Q10 & Revision and Doubts
	CHAPTER 13 PROBABILITY No. of Lect. = 10
Day 122	Ex. 13.1 - Q1, Q 4, Q5 & Basic of Probability
Day 123	Ex. 13.1 - Q7, Q9, Q12, Q14 (problem on conditional probability)
Day 124	Ex. 13.2 - Q1, Q2, Q5, Q9 concept of Independent events

Day 125	Ex. 13.2 - Q 12, Q14 (problem based on Independent event)
Day 126	Ex. 13.3 - Q2, Q4, Q7 Baye's Theorem (concept)
Day 127	Ex. 13.3 - Q7, Q6, Q12 (problem on Baye's Theorem)
Day 128	Ex. 13.4 - Q1, Q4, Q6 concept of probability distribution
Day 129	Ex. 13.4 – Q8, Q10 (problem on mean in probability distribution)
Day 130	Misc. Ex. Q1, Q3, Q5
Day 131	Misc. Ex Q7, Q10 & Revision and Doubts

SUBJECT: ECONOMICS

M.M: 100

PART- A MICRO ECONOMICS		40 Marks
Unit - 1	INTRODUCTION TO MICRO ECONOMICS	4 Marks
Day 1	Meaning and Definitions of Economics	
Day 2	Difference between Micro and Macroeconomics	
Day 3	Scope and Importance of Macroeconomics	
Day 4	Nature of economics, Positive and normative economic	
Day 5	Meaning and causes of economic problems	
Day 6	Central problems of economy and its solutions	
Day 7	Meaning, Assumptions of Production Possibility Curve	
Day 8	Different points on PPC, shifts and Rotation of PPC	
Day 9	Opportunity Cost – Meaning	
Day 10	Marginal Opportunity Cost – Meaning	
Unit - 2	CONSUMER EQUILIBRIUM AND DEMAND	14 Marks
Day 11	Meaning of Consumer utility, total utility and marginal utility	
Day 12	Relation between Total Utility and Marginal Utility	
Day 13	Law of diminishing Marginal Utility	
Day 14	Consumer's equilibrium – Meaning and Assumptions	
Day 15	Consumer's Equilibrium - One Commodity Case And Two Commodities.	
Day 16	Consumer's Equilibrium - Two Commodities Case.	
Day 17	Demand - Concept , Individual Demand and Market demand curve	
Day 18	Demand schedule - Individual Demand and Market demand	
Day 19	Determinants of demand	
Day 20	Law of demand – Assumption and Exceptions	
Day 21	Reasons why demand curve slopes downwards	
Day 22	Difference between movement along and shifts in demand curve	
Day 23	Reason in shifts in demand curve	
Day 24	Cross price effects, relation between Income and Demand	
Day 25	Classification of goods with reference to demand	
Day 26	Revision of consumer Equilibrium and demand	
Day 27	Concept of elasticity of demand and its degree	
Day 28	Measurement /methods of price elasticity of demand	
Day 29	Factors affecting the price elasticity of demand	
Day 30	Practical problems related to elasticity of demand	
Day 31	Revision of elasticity of demand	
Unit -3	PRODUCTION BEHAVIOUR AND SUPPLY	14 Marks
Day 32	Production Function – Meaning and types	

Day 33	Concept of TP, MP, AP of the variable factor
Day 34	Relation between TP, MP, AP
Day 35	Return to factor – concept
Day 36	Law of variable proportion – Concept and Assumptions
Day 37	Increasing return to factor – Causes Diminishing return to factor - Causes
Day 38	Importance of law of Diminishing Return to factor
Day 39	Cost – Concept and types
Day 40	Types of cost of production –TC, AC, MC and its relation among them
Day 41	Total cost, Fixed cost and Variable Cost
Day 42	Concept , Schedule and curve of average fixed cost and average variable cost
Day 43	Why is average cost curve U- Shaped?
Day 44	Marginal cost – Concept and relation between TC and MC
Day 45	Revision of cost and Production
Day 46	Concept of Revenue (TR, MR, AR)
Day 47	Relationship between TR, MR, AR
Day 48	Producer's Revenue Curve
Day 49	Producer's Equilibrium – Concept, Conditions
Day 50	Producer's Equilibrium – TR-TC approach,
Day 51	MR –MC approach
Day 52	Producer's Equilibrium – Short and long run period analysis
Day 53	Breakeven Point and Shut Down Point
Day 54	Supply – concept , Quantity supply, Market Supply
Day 55	Supply Schedule and Supply curve
Day 56	Determinants of supply
Day 57	Law of Supply – Concept , Assumption and Exception
Day 58- 59	Change in quantity supplied and change in supply
Day 60	Supply with GST, complementary goods and supplementary goods, Subsidy, input prices and technology
Day 61	Price elasticity of supply – meaning and factors affecting elasticity of supply
Day 62	Measurement and methods of price elasticity of supply
Day 63	Practical Problems
Unit - 4	FORMS OF MARKET AND PRICE DETERMINATION 8 Marks
Day 64	Market – concept and features
Day 65	Forms or types of Market
Day 66	Pure and Perfect Competition – A firm under perfect competition, demand curve of the firm under perfect competition & firm with normal profits in the long run
Day 67	Equilibrium price – concept and determination under perfect competition
Day 68	Assumptions and characteristics of price determination
Day 69	Effect of change in demand on equilibrium price
Day 70	Effect of change in supply on equilibrium price
Day 71	Price ceiling and price floor concept

Day 72	Time element and equilibrium price
Day 73	Revision Of Market And Equilibrium Price
	PART – B MACRO ECONOMICS 40 Marks
Unit - 5	NATIONAL INCOME AND AGGREGATES 10 Marks
Day 74	Concept of Macroeconomics & Scope of Macroeconomics and its definitions
Day 75	Concept and types of good – final and intermediate goods
Day 76	Consumer goods and Capital goods
Day 77	Concept and components of investment
Day 78	Gross and Net investment and Depreciation
Day 79	Difference between stock and flow
Day 80	Circular flow of Income - Concept & f2 Sector Model
Day 81	Real flow and money flow
Day 82	Importance of withdrawal and injection of circular flow of income
Day 83	National Income – Meaning and importance
Day 84	Basic concept of National Income – domestic territory of a country
Day 85	Normal Resident of a country
Day 86	Market price and factor cost concept in national income
Day 87	Aggregates to National Income - GDPMP, GNPMP
Day 88	NDPMP, NNPMP
Day 89	GDPFC, GNPFC
Day 90	NDPFC, NNPFC
Day 91	National Disposal Income, Private Income, Personal Income
Day 92	Personal disposal Income
Day 93	National Disposal Income
Day 94 -95	Practical Questions/ Numericals of National Income
Day 96	Real and Nominal GDP, GDP Deflator
Day 97	GDP and Welfare
Day 98-99	Revision of National Income
Day 100-101	Method of measuring National Income – Value added method
Day 102-103	Income method
Day 104-106	Expenditure method
Unit - 6	MONEY AND BANKING 6 Marks
Day 106	Meaning and evolution of money
Day 107	Barter system – meaning and drawbacks
Day 108	Classification of money
Day 109	Primary and secondary function of money
Day 110	Contingent function of money
Day 111	Indian monetary system and concept of money supply
Day 112,113,114	Commercial Bank – function, Money creation and money multiplier
Day 115-116	Central bank – functions
Day 117	Difference between central bank and commercial bank
Day 118	Instrument of monetary policy
Day 119	Revision of Banking and Money

Unit - 7	DETERMINATION OF INCOME AND EMPLOYMENT	12 Marks
Day 120	Aggregate demand – concept with two frame work	
Day 121	Aggregate demand function – Schedule and Curve	
Day 122	Components of Aggregate Demand	
Day 123	Concept and Components of Aggregate supply	
Day 124	Consumption function meaning and propensity to consume	
Day 125	Marginal propensity to consume	
Day 126	Propensity to save	
Day 127	Investment function and determinations	
Day 128	Full employment – concept , types of unemployment	
Day 129	Ex- Ante Saving And Investment, Ex-Post Saving And Investment	
Day 130	Equilibrium level of income and output	
Day 131	AD-AS approach (by Keynes and classical frame work	
Day 132	S-I approach	
Day 133	Full employment, underemployment and over employment	
Day 134	Investment Multiplier –Concept and working	
Day 135	Relation between MPC and multiplier	
Day 136	Practical problems of Investment multiplier	
Day 137	Deficit demand –causes and concept	
Day 138	Excess demand –concept and causes	
Day 139	Fiscal policy to correct excess and deficit demand	
Day 140	Monetary policy to correct excess and deficit demand	
Unit - 8	GOVERNMENT BUDGET AND THE ECONOMY	8 Marks
Day 141	Govt. Budget – meaning and objectives	
Day 142	Budget receipt – classification	
Day 143	Budget expenditure – classification	
Day 144	Development and Non- development expenditure planned and unplanned expenditure	
Day 145	Budget deficit	
Day 146	Comparison between balanced and unbalanced budget and downsizing the role of govt.	
Unit - 9	BALANCE OF PAYMENTS	8 Marks
Day 147	Meaning of balance of payment and balance of trade	
Day 148	Components of BOP	
Day 149	Balance of Payment – Surplus and Deficit	
Day 150	Foreign Exchange Rate – meaning and Types	
Day 151	Determination of Flexible rate of exchange in a free market –merits and demerits	
Day 152	Foreign Exchange Market –concept	
Day 153	Managed floating exchange rate system	
Day 154-155	Revision of foreign exchange rate, Balance of payment and govt. budget	

SUBJECT: SOCIOLOGY

No. of Days: 140

BOOK - A	INTRODUCTION TO INDIAN SOCIETY (NON- EVALUATIVE)
Unit - II	Demographic Structure and Indian Society
Day 1	Introduction to the Demographic Structure of the Indian Society
Day 2	Some Theories and Concepts of Demography
Day 3	The Malthusian Theory of Population Growth
Day 4	The Theory of Demographic Transition
Day 5	Continue theory of Demographic Transition
Day 6	Common concepts and indicators
Day 7	Size and Growth of India's population
Day 8	Age structure of the Indian Population
Day 9	The declining Sex- Ratio in India
Day 10	Literacy Rate
Day 11	Rural – urban Differences
Day 12	Population Policy in India
Unit - III	Social Institutions – Continuity and Change
Day 13	Introduction to social Institutions –Continuity & Change
Day 14	Concept of Caste System
Day 15	Introduction of caste
Day 16	Definitions of caste
Day 17	Caste in the past
Day 18	Colonialism and caste
Day 19	Caste in the Present
Day 20	Tribal communities & its Classifications
Day 21	Types, Features and Functions of Family & Kinship
Day 22	Types of kinship
Unit - IV	Pattern of Social Inequality and Exclusion
Day 23	Introduction to pattern of Social Inequality
Day 24	What is Social about Social Inequality and Exclusion?
Day 25	Caste and Tribe as a Discriminatory system
Day 26	The Protection of Religious Minorities
Day 27	Concept of Untouchability
Day 28	The other Backward Classes
Day 29	Adivasi Struggles – The marginalization of Tribal communities
Day 30	Struggle for women's Equality and Rights
Day 31	The Struggles of the Disabled and caring for the differently Abled
Unit - V	The Challenges of National Integration
Day 32	Introduction to the Challenges of Cultural Diversity
Day 33	Concept & Meaning of Communalism
Day 34	Problems of Communalism
Day 35	Concept and meaning of Regionalism
Day 36	Problems of Regionalism
Day 37	Problem of Casteism & Patriarchy
Day 38	The importance of Communities, Nations & Nation – States
Day 39	An overview on Cultural Diversity and the Indian Nation – State

Day 40	The Nation – State and Religion – related issues and Identities
Day 41	Issues & identity of minority Rights and Nation Building
Day 42	Communalism, Secularism and the Nation – State
Day 43	Role of the State in a Plural and Unequal Society
Unit - VI	Methodology
Day 44	Concept and Meaning of Survey method
Day 45	Survey method in detail
Day 46	Interview method
Day 47	Observation method in detail
Day 48	Combination of more than one method
Day 49	Concept of Schedule
Day 50	Possible Themes and subjects for small research projects
Day 51	Public Transport Role of communication media in social life
Day 52	Household Appliances The use of Public Space
Day 53	Changing Aspiration of different age groups The 'Biography' of a commodity
BOOK - B	SOCIAL CHANGE & DEVELOPMENT IN INDIA
Unit - I	Structural change
Day 54	Introduction to Structural change
Day 55	Understanding of Colonialism
Day 56	Urbanization and Industrialisation
Day 57	The colonial experience
Day 58	The Tea Plantations
Day 59	Industrialisation in Independent India
Day 60	Urbanization in Independent India
Unit - II	Cultural Change
Day 61	Introduction to Cultural change
Day 62	Social Reform movements in the 19 th & Early 20 th century
Day 63	Concept of Sanskritisation
Day 64	Concept of Modernization
Day 65	Concept of Secularisation
Day 66	Concept of Westernization
Day 67	Different kinds of Social Change
Day 68	Sanskritisation
Day 69	Westernization
Day 70	Modernization
Day 71	Secularisation
Unit - III	Change and Development in Rural Society
Day 72	Concept & Meaning of Democracy
Day 73	The Core values of Indian Democracy
Day 74	Constitutional Norms and Social Justice
Day 75	Panchayati Raj its Challenges, Power & Responsibilities
Day 76	Political Parties, Pressure Groups and Democratic Politics

Day 77	Concept of Rural Society
Day 78	Agrarian Structure of Caste and Class in Rural India
Day 79	The impact of Land Reforms during the Colonial period & Independent India
Day 80	The Green Revolution & its Consequences
Day 81	Transformations in Rural Society after Independence
Day 82	Concept of Circulation of Labour
Day 83	Concept of Globalization
Day 84	Concept of Liberalisation & Rural Society
Unit - IV	Globalization and Social Change
Day 85	Meaning of Globalization and Social Change
Day 86	Interconnections of Globalization new to world and to India
Day 87	Concept of Globalization & Cultural
Day 88	Globalization & Employment
Day 89	Globalization & Political change
Day 90	Concept of corporate culture
Unit - V	Mass Media and Communication Process
Day 91	Meaning of Mass- media & Communication
Day 92	Beginnings of modern mass media in Independent India
Day 93	Concept of Radio in Detail
Day 94	Three Approaches of mass media
Day 95	Concept of Television in Detail
Day 96	Concept of Print media in Detail
Unit - VI	Social Movements
Day 97	Introduction to Social Movements
Day 98	Features of Social movements
Day 99	Distinguish between Social change and Social Movements
Day 100	Why the study of social movements is important for Sociology
Day 101	Theories of Social movements
Day 102	Types of Social movements (Reformist)
Day 103	Redemptive and Revolutionary ways of classifying Social movements
Day 104	Peasant movement
Day 105	Distinguish between the New Social movement from the Old Social Movements
Day 106	The Dalit Movement
Day 107	Backward class caste movements
Day 108	The upper caste response to these movements
Day 109	The Tribal movements
Day 110	Women's movement in India
Day 111	The 19 th century social reforms movements and early women's organisations
	Practical
Day 112-120	Research Method
Day 121-140	Revision

SUBJECT: PSYCHOLOGY

Unit - I	INTELLIGENT AND APPTITUDE	8 Lecture
1	Concept of Intelligence	
2	Theories of Intelligence 2.1 Theory of multiple intelligence 2.2 Triachic theory of intelligence 2.3 Pass model of intelligence	
3	Culture and Intelligence 3.1 Test of Intelligence	
4	Apptitude: 4.1 Nature and Types	
5	Giftedness (Nature and Identification)	
6	Individual differences (heredity – environment interaction)	
Unit - II	SELF AND PERSONALITY	9 Lecture
1	Concept of Self 1.1 Self-Efficiency 1.2 Self-Regulation 1.3 Techniques	
2	Concept of Personality 2.1 Theories of Personality (Trait, Types, Psychoanalytic, Humanistic)	
3	Assessment of Personality 3.1 Self report measures 3.2 Projective techniques	
Unit - III	MEETING LIFE CHALLENGES	8 Lecture
1	Concept Of Adjustment	
2	Stress 2.1 Meaning 2.2 Sources and Types 2.3 Coping Strategies	
3	Concept of health and well-being	
Unit - IV	PSYCHOLOGICAL DISORDER	9Lecture
1	Concept of normality and abnormality 1.1 Casual factors associated with psychological disorders	
2	Classification of Psychological disorder	
3	Major psychological disorder 3.1 Anxiety 3.2 Schizophrenia (meaning and symptoms)	
4	Mood disorders 4.1 Behavioral 4.2 Substance related	
Unit - V	THERAPEUTIC APPROACHES	10 Lecture
1	Goals and Objectives of Therapeutic Process 1.1 Stages of Therapeutic relationship	
2	Types of Therapies:- 1.1 Psychodynamic 1.2 Humanistic 1.3 Cognitive	

	1.4 Behaviour 1.5 Biomedical, Yoga of Meditation 1.6 Rehabilitation of Mentally ill Patients	
Unit - VI	ATTITUDE AND SOCIAL COGNITION	9 Lecture
1	Nature and Components of Attitude 1.2 Attitude –Formation and Change	
2	Attribution 2.1 Social Cognition 2.2 Schemas 2.3 Stereotypes	
3	Pro-social behavior and techniques prejudices and discrimination, strategies for handling prejudice	
Unit - VII	GROUP PEOCESSES AND SOCIAL INFLUENCE	12 Lecture
1	Meaning of Group 1.2 Group Behaviour 1.3 Factors influencing group formation 1.4 Types of group 1.5 Social identity 1.6 Intergroup conflict 1.6 Conflict resolution strategies	
2	Social Influence Process 2.1 Conformity 2.2 Obedience and compliance 2.3 Cooperation and competition	
Unit - VIII	ENVIRONMENT AND SOCIAL CONCERNS	15 Lecture
1	Human – Environment Relationships 1.2 Noise Pollution 1.3 Air Pollution 1.4 Natural and Man-Made Disasters	
2	Social issues 2.1 Poverty 2.2 Aggression 2.3 Violence 2.4 Gender Discrimination	
3	Promoting Pro-Environment Behaviour 3.1 Human Rights 3.2 Peace Management	
Unit - IX	STATISTICS	9 Lecture
1	Meaning of Statistics 1.2 Types of Statistics. 1.3 Preparation of Frequency Distribution	
2	Measures of Central Tendency Mean, Median, Mode.	
3	Measures of Variability Range, S.D, Q.D, Average Derivation.	

SUBJECT: Geography**No. of Days =140**

PART –A FUNDAMENTALS OF HUMAN GEOGRAPHY	
The Plan ensures Comprehensive coverage, including MCQs, Map work and Answer Writing Practice	
Month - 1	Human Geography and population Distribution
Day 1	Introduction to Human Geography
Day 2	Nature and Scope of Human Geography
Day 3	Environmental Determinism Vs. Possibilism
Day 4	Approaches To Human Geography (Regional, systematic)
Day 5	Major Geographical thought Contributions.
Day 6	Case studies on Human - Nature Interactions.
Day 7	MCQs and Short Answer Practice (Revision)
Day 8	Population change – Spatial patterns and structure
Day 9	Determinants of population change; Rural- urban Composition
Day 10	Human Development – Concept, Selected Indicators
Day 11	Map Work: Major Human International Comparison
Day 12	Human Activities Primary Activities- Concept And Changing Trends
Day 13	Gathering, Pastoral, Mining, Subsistence Agriculture
Day 14	Modern Agriculture People Engaged in Agriculture and allied activities
Day 15	Discussion about previous topics
Day 16	Secondary activities- concept, manufacturing, agro-processing, household
Day 17	Small-scale, large-scale, people engaged in secondary activities.
Day 18	Example from selected activities.
Day 19	Revision of these topics.
Day 20	Tertiary activities-concept trade-meaning and its importance.
Day 21	Transport and communication-significance and factors
Day 22	People engaged in tertiary activities.
Day 23	Examples from selected countries
Day 24	Revision and discussion about MCQs
Day 25	Quaternary activities- concept and its significance
Day 26	Quinary activities- concept and its significance.
Day 27	Knowledge based industries.
Day 28	People engaged in quaternary activities
Day 29	Business process outsourcing.
Day 30	Some examples from the countries
Day 31	Knowledge process outsourcing.
Day 32	Differentiate between Quaternary and Quinary activities
PART - B	
Day 33	People-population-distribution, density and growth
Day 34	Composition of population
Day 35	Linguistic- sex and religious
Day 36	Rural-urban population change
Day 37	Time-regional variation, occupations

Day 38	Migration-meaning and factors influencing
Day 39	International- causes and consequences
Day 40	Rural settlement, trading blocs.
Day 41	Differentiate between national and international trade
Day 42	Human Settlement: - rural settlement- meaning and types.
Day 43	Rural Settlement- Distribution
Day 44	Urban settlement- meaning and its types
Day 45	Urban Settlement- Distribution
Day 46	Discussion about previous topics
Day 47	Urban Settlement- Classification
Day 48	Resources and Development – Meaning and its Significance
Day 49	Land resources – Meaning and its importance
Day 50	Meaning –Barren land, Wasteland, Culturable Wasteland
Day 51	Net sown area, Total Cultivable land, Dry land and Wetland farming.
Day 52	Map work –Rice and Wheat growing areas
Day 53	Map Work –Tea and Coffee growing areas
Day 54	Agricultural development and its problems.
Day 55	Common Property Resources
Day 56	Water Resources – Meaning and Utilization
Day 57	Water shed management and its importance
Day 58	Rain Water Harvesting and the methods used on it.
Day 59	Development of nuclear energy in India
Day 60	Conventional sources of Energy
Day 61	Non - Conventional sources of Energy
Day 62	Mineral and Energy Resources – Meaning (Metallic minerals)
Day 63	Non- Metallic minerals and their distribution
Day 64	Case study
Day 65	Production and distribution of Iron-Ore in India
Day 66	Planning and Sustainable development in Indian context – Meaning and concept of Sustainable Development
Day 67	Case study on Indira Gandhi Canal command area
Day 68	Drought- Prone Area Programme and Agro- Climatic Planning
Day 69	Measures for Promotion of Sustainability
Day 70	Case study – Integrated Development Project in Barar maur region
Day 71	Revision about Previous topics
Day 72	Case study – Hill Area Development Programmes
Day 73	PART –A (Transport, Communication and Trade) – Meaning and its importance
Day 74	Land transport - Meaning and problem of road transport in mountainous, desert and flood prone areas.
Day 75	Major regions of the world having a dense network of transport
Day 76	Importance of Major Railway Network
Day 77	Rail network – Meaning and its importance
Day 78	Differentiate Between Port And Harbour, National Highways, and State Highways, and Transport and Communication

Day 79	Metalled And Unmetalled Road
Day 80	Trans- Continental railways, Satellite Communication
Day 81	Communication networking – Radio, Television and Internet
Day 82	Oil and Gas Pipelines
Day 83	Cyber space – Meaning and its Advantage
Day 84	International trade- concept
Day 85	Basics and changing patterns
Day 86	Ports as Gateways of International trade
Day 87	Trading Blocs
Day 88	Favourable and Unfavourable balance of payments
Day 89	Different trading blocs (Regional)
Day 90	Importance of blocs in International trade – E.U, SAARC and ASEAN
Day 91	Oil ports, Naval ports, Entrepot
Day 92	Ports and their functions
Day 93	Important aspects of International Trade
Day 94	Types of ports on the basis of Cargo
Day 95	Types of ports on the basis of location
Day 96	Revision of Previous topics
Day 97	Importance of Oceanic routes
Day 98	Major Railways Of The World
Day 99	Problems of railways and its routes
Day 100	Growth and development of Border Roads in India
Day 101	Features and development of Railways in India
Day 102	Inland waterways of India
Day 103	Problems of three Railway Ganges (Broad, Meter and Narrow)
Day 104	Distinguish between satellite and Internet Communication
Day 105	Revision about previous topics
Day 106	Composition of export trade India
Day 107	Composition of export trade India
Day 108	Changing nature of International trade of India
Day 109	Meaning of Hinterland
Day 110	Revision about the previous topics
Day 111	Ports on the Eastern Coast
Day 112	Ports on the Western Coast
Day 113	India's foreign trade
Day 114	Increase in volume of trade
Day 116	Value of trade
Day 117	Features of export trade
Day 118	Difference between value of import and export trade of India
Day 119	Ports are the gateways to trade
Day 120	Discussion of trade – (Import and Export)
Day 121	Location and importance of commercial ports of India
Day 122	Map work – (Eastern and Western ports)
Day 123	Problems of slums in India
Day 124	Reduction of land – degradation in India

Day 125	Urbanization in India
Day 126	Nature and trends of urbanization in India
Day 127	Environmental Pollution in India
Day 128	Discussion about previous chapter
Day 129	Air Pollution and its effects
Day 130	Water Pollution and its effects
Day 131	Noise Pollution and its effects
Day 132	Soil erosion, salinization
Day 133	Water logging (problem)
Day 134	Composition of solid wastes from cities
Day 135	Patterns of rural settlements (Clustered, Semi- Clustered, Hamleted, Dispersed)
Day 136	Factors affecting patterns of rural settlement
Day 137	Evolution of towns in India
Day 138	Case Study and Map Work
Day 139	Programmes –(Watershed management) and India's National water Policy, 2002
Day 140	Discussion and previous of these topics

SUBJECT: History

M.M: 100

Theory: 80 Marks

Internal Assessment: 20

THEMES IN INDIAN HISTORY (PART – I)	
Week 1-2	UNIT – 1 THE HARAPPAN CIVILIZATION
Day 1-2	Introduction to the Harappan Civilization –Geographical extent, sources, and significance
Day 3-4	Urban Planning And Architecture –Town planning, Drainage system
Day 5-6	Economy and Trade –Agriculture craft production, internal and external trade
Day 7-8	Society and Religion –Social organization, burial practices , religious beliefs
Day 9	Decline of the Harappan Civilization –Theories and debates
Day 10	Source-based question and map work
Week 3-4	UNIT – 2 EARLY STATES AND ECONOMICS
Day 11-12	Rise of mahajanapadas – political formations, early republics
Day 13-14	Mauryan Empire –Administration, economy and Ashok's Dhamma
Day 15-16	Post- Mauryan Period –Indo –Greeks, Kushanas, Satavahanas
Day 17-18	Gupta Empire – Administration, economy and society
Day 19	Discussion on sources (inscriptions, texts and archaeology)
Day 20	Practice questions and revision
Week 5-6	UNIT- 3 KINGSHIP, CAST AND CLASS
Day 21-22	Social structures in early societies –Varna and Jati
Day 23-24	Family and Kinship –Marriage patterns, Manusmriti, gender roles
Day 25-26	Social mobility and contestations –Bhakti movements, Buddhism, Jainism
Day 27	Analysis of textual sources –Rigveda, Sangam literature, epics
Day 28	Source-based question and map work

Day 29-30	Discussion, revision and practice questions
Week 7-8	UNIT – 4 THINKERS, BELIEFS AND BUILDINGS
Day 31-32	Emergence Of Religious Traditions –Vedic religion, Buddhism, Jainism
Day 33-34	Ashoka’s Dhamma and Buddhist councils
Day 35-36	Temples, Stupas and Monasteries – Architecture and Symbolism
Day 37-38	Bhakti and Sufi Traditions – Social impact and regional variations
Day 39	Comparison of different religious traditions
Day 40	Practice questions and source analysis
Week 9-10	Revision and Practice
Day 41-42	Map Work –Important Archaeological sites and political boundaries
Day 43-44	Source –based questions – Interpretation and Analysis
Day 45-46	Long answer questions Answer structuring and writing practice
Day 47-48	Mock tests and self-assessment
Day 49-50	Final revision and discussion
THEMES IN THE INDIAN HISTORY (PART – II)	
Week 1-2	UNIT – 1 THROUGH THE EYES OF TRAVELLERS: PERCEPTIONS OF SOCIETY
Day 1	Introduction to Travelogues –importance of travelers accounts in history
Day 2	Al-Biruni’s Perspective –understanding India through his writings
Day 3	Ibn Battuta’s Observations –social and cultural aspects of medieval India
Day 4	Francois Bernier’s writings – his view on Mughal society
Day 5	Comparative Analysis – differences in their observations
Day 6	Class discussion & debate – objectivity vs. bias in travelogues
Day 7	Source Analysis –Studying excerpts from texts
Day 8	Assessment (Quiz/Short Essay) –understanding traveler perspectives
Day 9	Review & Doubt clearing
Day 10	Activity: Role play – Students present as historical travelers
Week 3-4	UNIT – 2 BHAKTI – SUFI TRADITIONS
Day 11	Introduction to Bhakti & Sufi Traditions – meaning & significance
Day 12	Early Bhakti Movement – Alvars, Nayanars and their contributions
Day 13	Sufi ideals & practices – Khanqahs, Chishti order and their influence
Day 14	Kabir & Guru Nanak –Synthesis of religious ideas
Day 15	Comparing Bhakti & Sufi Traditions
Day 16	Role of women in Bhakti –Sufi Movements
Day 17	Art, Music & Literature – impact of Bhakti & Sufi on Culture
Day 18	Assessment (MCQ & Discussion-based Questions)
Day 19	Review & Q & A
Day 20	Group Presentation – Students present on a Bhakti/ Sufi saint
Week 5-6	UNIT – 3 AN IMPERIAL CAPITAL: VIJAYANAGAR
Day 21	Introduction to Vijayanagara Empire – Foundation and rulers
Day 22	City planning & Architecture – Temples, palaces, & water system
Day 23	Society & Economy – social hierarchy & trade practices
Day 24	Krishna Deva Raya’s Rule – Achievements & policies
Day 25	Sources of history – travelers accounts & archaeological evidence
Day 26	Religion & Culture – role of temples & festivals

Day 27	Conflicts & decline – battle of Talikota & aftermath
Day 28	Assessment (Map work & Concept check)
Day 29	Review & Discussion
Day 30	Debate : Strengths & Weaknesses Of Vijayanagara Administration
Week 7-8	UNIT – 4 AGRARIAN SOCIETY AND THE MUGHAL EMPIRE
Day 31	Introduction to Mughal Agrarian Economy –Revenue system & Agriculture
Day 32	Mansabdari System – structure & role in Administration
Day 33	Zamindars & Peasants – Relationship & conflicts
Day 34	Jahangir & Shah Jahan’s Economic Policies
Day 35	Land Revenue Systems – Todarmal’s reforms
Day 36	Irrigation & Crop Patterns – Economic sustainability
Day 37	Peasant rebellions – Causes & Consequences
Day 38	Assessment (Case studies & Source Analysis)
Day 39	Review & Q & A
Day 40	Class Project: Comparing Mughal & Vijayanagara Economy
Week 9-10	Revision & Final Assessment (10days)
Day 41	Quick Recap of Unit 1 (Travelers Accounts)
Day 42	Quick Recap of Unit 2 (Bhakti -Sufi Traditions)
Day 43	Quick Recap of Unit 3 (Vijayanagara Empire)
Day 44	Quick Recap of Unit 4 (Mughal Agrarian Society)
Day 45	Practice Essay Writing – Analytical & source-based questions
Day 46	Mock Test (Objective & Subjective Questions)
Day 47	Group Discussions & Peer Review
Day 48	Doubt Clearing & Concept Strengthening
Day 49	Final Assessment (Exam / Project Submission)
Day 50	Feedback & Reflection – Discuss learning & future applications
THEMES IN THE INDIAN HISTORY (PART – III)	
Week 1	Unit – 1 COLONIALISM AND THE COUNTRY SIDE
Day 1	Introduction to Colonialism in Rural India Overview of Colonial Policies in Agriculture and land revenue Discussion on primary sources (official records, surveys)
Day 2	The Permanent Settlement Explain Cornwallis’s System Its impact on Landlords, peasants and the British
Day 3	The Ryotwari and Mahalwari systems Compare different land revenue systems Case studies (Madras, Bombay, North India)
Day 4	Changes in Rural Society Shifts in land ownership Rise of moneylenders and debt cycles
Day 5	Case Study: The Indigo Rebellion Causes, course and consequences Role of peasants and British response
Day 6	Colonial Archives & Their Limitations Understanding how official records shaped history

	Discussion: whose perspective is missing?
Day 7	Group Discussion & Review Debate: Were British policies beneficial or exploitative? Recap key points
Week 2	Unit – 2 REBELS AND THE RAJ – THE REVOLT OF 1857
Day 8	Causes of the Revolt Political, Economic, Social and Military reasons Primary source analysis
Day 9	Major Uprisings and Leaders Regional case studies (Delhi, Kanpur, Jhansi, Awadh) Role of Rani Lakshmbai, Nana Sahib, Bahadur Shah II
Day 10	British response to the Revolt Military suppression strategies Harsh retribution and its consequences
Day 11	Impact of the Revolt Changes in British policies End of Mughal rule, rise of direct Crown Rule
Day 12	1857 in Literature and Art How the revolt was represented in British and Indian narrative Analyzing Paintings, books, folk songs
Day 13	Rebels’s Perspective Vs. British Narrative Comparing Indian and British sources Identifying biases in historical accounts
Day 14	Group Discussion & Review Discussion: Was 1857 the first war of Independence? Debate: Heroes vs. rebels – how do perspectives change?
Week 3	DEEPER ANALYSIS & REVISION
Day 15	Connecting 1857 to Later Movements Link between 1857 and early nationalist movements Role of memory in shaping political thought
Day 16	Historiography of 1857 Different historians interpretation Indian vs. Western perspectives
Day 17	Open discussion & student Presentations Students present case studies on key figures/events
Day 18	Map work & Primary source Analysis Identifying key regions of rebellion Examining letters, reports, and testimonies
Day 19	Mock Test & Q &A session Practice short and long answer questions Peer discussions on complex themes
Day 20	Final Recap & Reflection
	Unit - 3 MAHATMA GANDHI AND THE NATIONALIST MOVEMENT
Day 1	Introduction To Gandhi And His Ideology Overview Of His Life And Philosophy (Satyagraha, Non-Violence)

	Class Discussion: how did Gandhi’s ideology shape India’s freedom struggle?
Day 2	Gandhi’s Early Life and South Africa Experience Study his Activism in South Africa Experience Study his activism in South Africa Activity: Debate on Gandhi’s methods in South Africa vs. India
Day 3	Gandhi’s Role in Indian Politics (1915-1920) Champaran, Kheda, and Ahmedabad movements Group discussion: were these movements successful?
Day 4	Non-Cooperation Movement (1920-1922) Causes, objectives, and impact Activity: Students create a timeline of key events
Day 5	Civil Disobedience Movement (1930-1934) Salt March and its significance Class discussion: why was salt a powerful Symbol?
Day 6	Gandhi and the Round table Conferences Purpose and results of these conferences Activity: Mock round table conference discussion
Day 7	Quit India Movement (1942) Causes and Consequences Documentary viewing + reflection writing
Day 8	Gandhi’s Role in Partition and Independence His stance on communal harmony Debate: was Partition inevitable?
Day 9	Gandhi’s Assassination and Legacy Reasons behind his Assassination Class discussion: How is Gandhi’s ideology relevant today?
Day 10	Revision and Quiz Recap Key concepts Quiz or group presentation
	UNIT - 5 FARMING THE CONSTITUTION
Day 11	Introduction to the Indian Constitution Why does a country need a constitution? Group discussion: Compare the Indian Constitution with others
Day 12	Historical context of constitution making Role of the Constitution Assembly Class activity: Research key members of the Assembly
Day 13	Key Features of the Indian Constitution Preamble, Fundamental Rights, Directive Principles Activity: Write your own preamble
Day 14	The Role of Dr. B.R. Ambedkar His contributions and vision Debate: Did Ambedkar’s vision shape India’s democracy?
Day 15	Challenges in Framing the Constitution Diversity, federalism, and governance issues Group discussion: What challenges still exist?

Day 16	Important Constitutional Debates Centralization vs. federalism, secularism, and reservation Mock debate on a key constitutional issue
Day 17	The Adoption of the Constitution (26 th January 1950) How and when it came into effect Class discussion: Why was Republic day chosen?
Day 18	Amendments and Evolution of the Constitution Important amendments over time Activity: Suggest an amendment and justify it
Day 19	Constitution in Today's Context How the constitution affects daily life Case study analysis: landmark supreme court judgments
Day 20	Final Review and Assessment Recap of both units Essay writing or presentations on key learning Key takeaways from both units How colonialism and the revolt shaped modern India

SUBJECT: POLITICAL SCIENCE

M.M: 100

	PART -A
Chapter 1	DIS-INTEGRATION OF USSR (END OF BI- POLARITY)
Lecture 1	Discuss about the concept of cold war and its consequence.
Lecture 2	How world become bi- polar and then uni-polar
Lecture 3	Discuss about the soviet union & its feature
Lecture 4	What are the various reason for dis- integration of U.S.S.R
Lecture 5	Discuss the various consequence of dis- integration U.S.S.R
Lecture 6	Discuss about the very short question
Lecture 7	Revision
Chapter 2	ALTERNATIVE CENTERS OF POWER
Lecture 8	Discuss about the Alternative center of Power
Lecture 9	Discuss origin and formation of E.U
Lecture 10	Discuss formation function of ASEAN
Lecture 11	Discuss about the Chinese economy
Lecture 12	Discuss about MAO Zedong & open door policy
Lecture 13	Discuss about the very short question
Lecture 14	Revision
Chapter 3	SOUTH ASIA IN CONTEMPORARY WORLD
Lecture 15	What do you mean by south Asia
Lecture 16	Discuss about SAARC name of SAARC Countries
Lecture 17	Discuss about SAFTA (south Asian free trade Agreement)

Lecture 18	Discuss about SAPTA (south Asian Preferential trade Agreement)
Lecture 19	Discuss India's role in SAARC
Lecture 20	Various SAARC summit from date of establishment to till date
Lecture 21	Revision
Chapter 4	INTERNATIONAL ORGANIZATION
Lecture 22	Discuss about International Organization
Lecture 23	Meaning and origin of UNO
Lecture 24	Discuss about the organ of UNO
Lecture 25	Note on general Assembly Security council economic & social council
Lecture 26	Trusteeship council , International court of Justice , Secretariat
Lecture 27	Discuss the various International organization like WTO, WHO, ILO, IAEO, UNESCO
Lecture 28	Discuss India role in UN
Lecture 29	Revision
Chapter 5	GLOBALIZATION
Lecture 30	Meaning of Globalization
Lecture 31	Discuss about LPG and private and public sector
Lecture 32	Impact of Globalization
Lecture 33	What do you mean by World Wide connectedness
Lecture 34	Impact of Globalization in India
Lecture 35	Consequences of Globalization
Lecture 36	Features of Globalization
Lecture 37	Growth and Multinational Companies
Lecture 38	Revision
Lecture 39	Debate on Globalization with Positive & Negative Consequences
Lecture 40	Oral test of multiple choice question
Chapter 6	SECURITY IN CONTEMPORARY WORLD
Lecture 41	Meaning of Security
Lecture 42	Traditional & Non- traditional Security
Lecture 43	Meaning of balance of power
Lecture 44	Global poverty
Lecture 45	Meaning of terrorism
Lecture 46	Threats to security of Nation
Lecture 47	discuss about the various communicable disease
Lecture 48	Discuss about International threat
Lecture 49	Revision

Chapter 7	ENVIRONMENT POLLUTION & ITS PROBLEM
Lecture 50	Meaning of Environmental Pollution
Lecture 51	Various Environmental issue impacted the Environment of India
Lecture 52	Global warming
Lecture 53	Green house haseous
Lecture 54	Ozone layer depletion
Lecture 55	Types of atmosphere
Lecture 56	Discus the various continents
Lecture 57	Discuss about Antarctica
Lecture 58	What do you mean by sustainable development
Lecture 59	Lryoto protocol
Lecture 60	Earth summit
Lecture 61	Note on Agenda 21/ earth summit
Lecture 62	Revision of whole chapter
	PART-B
Chapter 1	Nation building and its problems
Lecture 63	Meaning of nation building
Lecture 64	Discuss the factors responsible for nation building
Lecture 65	Partition and its consequences
Lecture 66	Integration of princely state
Lecture 67	Re-organization of state on linguistic basis
Lecture 68	Discuss various reasons responsible for partition of india
Lecture 69	Revision of whole chapter
Chapter 2	ERA OF ONE PARTY DOMINANCE
Lecture 70	Congress dominance at the central and state level
Lecture71	Congress dominance also at the first general three election
Lecture 72	Emergence of opposition parties
Lecture 73	Emergence of Bhartiya jana sangh
Lecture 74	Emergence of communist party & swatantra party & CPI
Lecture 75	Why privy purse become controversial
Lecture 76	Dictum of Aye Ram hayr Ram
Lecture 77	Meaning of defection
Lecture 78	revision
Chapter 3	POLITICS OF PLANNED DEVELOPMENT
Lecture 79	Five year plan

Lecture 80	Meaning of planning
Lecture 81	Objective of planning and its aims
Lecture 82	Discuss about NITI aayog
Lecture 83	Discuss about national development council
Lecture 84	Green revolution & its positive and negative impacts
Lecture 85	Short note on white revolution
Lecture 86	Revision
Chapter 4	INDIA'S EXTERNAL RELATION
Lecture 87	Meaning Of Foreign Policy
Lecture 88	Factors responsible for foreign policy
Lecture 89	India's relation with china
Lecture 90	India's relation with Pakistan
Lecture 91	India's relation with neighbouring countries
Lecture 92	Non-Aligned movement
Lecture 93	India's role in NAM
Lecture 94	India's relation with USSR/Russia
Lecture 95	Revision of whole chapter
Chapter 5	CHALLENGE TO RE-STORATION OF CONGRESS PARTY
Lecture 96	Discuss the political succession after Nehru
Lecture 97	Emergence of non-congress government
Lecture 98	Split of Congress & Resident Election
Lecture 99	Polities of syndicates
Lecture 100	Tashkent declaration
Lecture 101	DMK & AIADMK
Lecture 102	Revision
Chapter 6	CRISIS OF CONSTITUTIONAL ORDER
Lecture 103	Causes of emergency
Lecture 104	Bihar movement/ Gujrat movement
Lecture 105	Consequences of emergency
Lecture 106	Victory of congress in 1971 election
Lecture 107	Grand Alliance, privy purse" Indira lao Desh Bachao"
Lecture 108	Rise of civil liberties and human rights movement
Lecture 109	Nav-Nirman movement
Lecture 110	Written test of whole chapter
Lecture 111	Revision of multiple choice question
Lecture 112	Debate on dominance of congress

Chapter 7	REGIONAL ASPIRATION
Lecture 113	Meaning of Regionalism
Lecture 114	Causes of Regionalism
Lecture 115	“Regionalism is a curse” Explain
Lecture 116	Regional parties (Shiromant Akali Dal)
Lecture 117	Ideology & Policy of National conference
Lecture 118	J & K internal sepration
Lecture 119	Article 370/35(A)
Lecture 120	2019 State Re-organisation Commission
Lecture 121	Written test of Akali Dal
Lecture 122	Assam movement/ Assam Accord
Lecture 123	Revision
Chapter 8	Recent Developments in Indian Politics.
Lecture 124	United Progressive Alliance
Lecture 125	National Democratic Alliance
Lecture 126	Emergence of BJP as a national party
Lecture 127	National front & united front
Lecture 128	Rise of Janata Dal
Lecture 130	Rise of JDS & JDU
Lecture 131	Mandan Commission & OBC Reservation
Lecture 132	Ajodhya Mandir vs Babri Masjio/ Dispute
Lecture 133	Gujrat Riots / Hodhra Episode
Lecture 134	Local self-government
Lecture 135	Written test of whole chapter

Subject: Education

Total Days: 140

M.M. 100

Unit 1	Curriculum	12 Lectures
	1. Meaning of Curriculum.	1 Lectures
	2. Importance of Curriculum.	1 Lectures
	3. Definitions of Curriculum	2 Lectures
	a) Ross b) Cunningham c) Tagore d) Dr. Zakir Hussain e) Secondary Education Commission (1952-53)	
	4. Types of curriculum (Merits and demerits)	
	a) Subject – Centered Curriculum	2 Lecture
	b) Activity – Centered Curriculum	2 Lectures
	c) Child – Centered Curriculum	2 Lectures
	5. Defects of existing Curriculum	1 Lecture

	6. Reformative measures	1 Lecture
Assignment	How modern Curriculum is helpful in harmonious development of the child?	
Unit 2	Co – Curricular Activities	21 Lectures
	1. Meaning of Co – Curricular Activities.	1 Lectures
	2. Types of Co – Curricular Activities.	1 Lectures
	3. Importance of Co – Curricular Activities.	1 Lecture
	4. Types of Co – Curricular Activities	
	a) Literary Activities	
	• Debate	1 Lecture
	• School Magazine	2 Lectures
	• Library	2 Lectures
	b) Aesthetic and Cultural Activities	
	• Drama	2 Lectures
	• Educational Tours	2 Lectures
	• Folk – Activities	2 Lectures
	c) Social Activities	
	• Morning Assembly	1 Lecture
	• N.S.S	1 Lecture
	d) Physical Activities	
	• Games and Sports	1 Lecture
	• N.C.C	1 Lecture
	• Scouting	2 Lectures
Assignment	Debate on Current Topic in the Class.	1 Lecture
Unit 3	Development of Education in J&K	16 Lectures
	1. Role of Missionary Schools with reference to	
	a) Tyndale Biscoe (1881-82)	2 Lectures
	b) Anjuman – I – Nusrat-ul Islam (1905)	1 Lecture
	c) Dogras with special reference to primary education.	2 Lectures
	d) Sharp Committee (1916)	1 Lecture
	e) K.G. Saidain Report (1939)	1 Lecture
	f) Kazimi Report (1905)	1 Lecture
	g) Bhagwan Sahay Committee (1972)	2 Lectures
	2. Brief History of the following Institutions:	
	a) Jammu and Kashmir Board of School Education.	2 Lectures
	b) Directorate of School Education.	1 Lecture
	c) University of Kashmir.	1 Lecture
	d) University of Jammu.	1 Lecture
Assignment	Practice of Multiple Choice Questions.	1 Lecture
Unit 4	Population Education	13 Lectures
	1. Meaning of Population Education.	1 Lecture
	2. Objectives of Population Education.	1 Lecture
	3. Need and Importance of Population Education.	2 Lectures

	4. Population Explosion a) Meaning of Population Explosion. b) Causes of Population Explosion. c) Consequences of Population Explosion. d) Control of Population Explosion.	1 Lecture 2 Lectures 1 Lecture 1 Lecture
	5. Role of Media (Print and Electronic) for Population Awareness.	4 Lectures
Assignment	How media is spreading awareness among people about controlling population?	
Unit 5	Educational Thinkers	12 Lectures
	1. M.K. Gandhi a) Life – Sketch b) Concept of Education c) Aims of Education d) Curriculum e) Methods of Teaching f) Role of Teacher	4 Lectures
	2. Dr. Zakir Hussain a) Life – Sketch b) Concept of Education c) Aims of Education d) Curriculum e) Methods of Teaching f) Role of Teacher	4 Lectures
	3. John Dewey a) Life – Sketch b) Concept of Education c) Aims of Education d) Curriculum e) Methods of Teaching f) Role of Teacher	4 Lectures
Assignment	Practice of Objectives Type Questions.	
Unit 6	Statistics in Education	13 Lectures
	1. Meaning of Variability	1 Lecture
	2. Methods of determining Variability through: a) Range b) Q.D. (Quartile Deviation) c) M.D. (Mean Deviation) d) S.D. (Standard Deviation)	1 Lecture 1 Lecture 2 Lectures 2 Lectures
	3. Correlation a) Concept of Correlation. b) Computation of Correlation i) Rank Method (Spearman) ii) Product Moment Method (Pearson)	1 Lecture 2 Lectures 2 Lectures
Assignment	Practice of Questions in the Class.	

Unit 7	Human Growth and Development	14 Lectures
	1. Meaning of Growth and Development	1 Lecture
	2. Principles of Growth and Development	2 Lectures
	3. Stages of Growth and Development. Physical, Mental and Social with Special Reference to a) Infancy b) Childhood c) Adolescence: Characteristics, Need and Problems of Adolescents with remedial measures.	3 Lectures 3 Lectures 5 Lectures
Assignment	Differentiate between Growth and Development.	
Unit 8	Mental Health and Hygiene	12 Lectures
	1. Meaning and Definition of Mental Health.	1 Lecture
	2. Meaning and Definition of Mental Hygiene.	1 Lecture
	3. Purposes of Mental Health and Mental Hygiene.	1 Lecture
	4. Characteristics of Mentally Healthy Individual.	1 Lecture
	5. Need for Mental Health and Hygiene.	1 Lecture
	6. Factors Determining Mental Health: a) Hereditary factors b) Physical factors c) Social factors.	3 Lectures
	7. Causes of Poor Mental Health.	1 Lecture
	8. Achieving Mental Health.	3 Lectures
Assignment	“Sound mind lives in sound body.” Explain the statement in your own words.	
Unit 9	Learning	11 Lectures
	1. Meaning and Characteristics of Learning.	1 Lecture
	2. Definitions of Learning: a) Thorndike b) Skinner c) Hilgard d) Gates e) Crow and Crow f) Jeff Cob.	2 Lectures
	3. Types of Learning a) Perceptual b) Conceptual c) Motor d) Verbal e) Associative	2 Lectures
	4. Laws of Learning (Primary and Secondary) and their educational Implication.	6 Lectures
Assignment	Explain the main factors which help in facilitating learning.	
Unit 10	Adjustment and Maladjustment	16 Lectures
	1. Concept of Adjustment	2 Lectures
	2. Characteristics of Well-adjusted Person.	1 Lecture
	3. Concept of Maladjustment.	1 Lecture
	4. Causes and Symptoms of Maladjusted Person.	6 Lectures

	5. Defence Mechanism a) Identification b) Rationlization c) Sublimation d) Compensation e) Escapism f) Fantasy.	6 Lectures
Assignment	Why do we use Defence Mechanism in Adjustment?	

SUBJECT: PHYSICAL EDUCATION

Chapter 1	PHYSICAL FITNESS
Day 1	Introduction of Physical Fitness.
Day 2	Meaning and definition of Physical Fitness.
Day 3	Importance of Physical Fitness.
Day 4	Components of Physical Fitness
Day 5	Components of Physical Fitness
Day 6	Factor affecting Physical Fitness.
Day 7	Principles of Physical Fitness development.
Day 8	Types of Physical Fitness
Day 9	Means of Physical Fitness development (Aerobic & Anaerobic activities)
Day 10	Multiple choice questions
Day 11	Revision of Lesson 1
Chapter 2	TRAINING METHODS
Day 12	Meaning and definition of Training & Training Method
Day 13	Phases of Training (Preparatory, Competition & Transitional period)
Day 14	Warm up (Meaning & Importance)
Day 15	Cooling down (Meaning & Importance)
Day 16	Strength development Training Method (Isometric Exercise)
Day 17	Isotonic Exercise
Day 18	Isokinetic Exercise
Day 19	Method of Endurance (Continuous Method)
Day 20	Interval Training Method.
Day 21	Fartlek Training Method.
Day 22	Circuit Training Method.
Day 23	Speed Development Method (Acceleration Run)
Day 24	Pace Run training method.
Day 25	Multiple choice questions
Day 26	Revision of Lesson 1
Chapter 3	SOCIOLOGICAL ASPECT OF PHYSICAL EDUCATION
Day 27	Meaning and definition of Sociology

Day 28	Importance of Sociology.
Day 29	Meaning, Definitions & Importance of Sports Sociology.
Day 30	Games and Sports as Man's Cultural Heritage.
Day 31	Games and Sports as Man's Cultural Heritage (continue)
Day 32	Meaning & Types of Leader/ Leadership
Day 33	Qualities of good leader.
Day 34	Development of leadership qualities through the medium of sports
Day 35	Meaning of Group dynamic & factors influence group dynamics
Day 36	Value Education through Physical Education Programmes.
Day 37	Methods for the Development of values.
Day 38	Reasons for ineffective Development of values.
Day 39	Revision of Lesson 3
Day 40	Multiple choice questions
Chapter 4	MORAL EDUCATION
Day 41	Meaning and Definition, Importance of Moral Education
Day 42	Morality and Immorality.
Day 43	Why Moral values are Eroding?
Day 44	How to revive value system
Day 45	Moral Education through Physical Education.
Day 46	Multiple choice questions
Day 47	Revision of Lesson 4
Chapter 5	SPORTS AND ENVIRONMENT
Day 48	Meaning and Definition, Types of Environment.
Day 49	Essential Elements of Positive Environment.
Day 50	Elements of Positive Environment (Continue)
Day 51	Meaning and Definition, Importance of Sports Environment.
Day 52	Essential Elements of Sports Environment.
Day 53	Role of parents in improving Sports Environment
Day 54	Role of Individual for improving positive Environment
Day 55	Prevention of sports related accidents
Day 56	Effects of air pollution on sports person..
Day 57	Multiple choice questions
Day 58	Revision of Lesson 5
Chapter 6	YOGA
Day 59	Meaning and definition of Yoga.
Day 60	Importance of Yoga in games & sports

Day 61	Elements of Yoga
Day 62	Elements of Yoga (Continue)
Day 63	Yoga as an Indian Culture.
Day 64	Yoga as an Indian Culture (continue)
Day 65	Types of Yoga Asanas (Culture Asanas)
Day 66	Meditative Asanas & Relaxation Asanas)
Day 67	Role of Yoga in Sports
Day 68	Multiple choice questions
Day 69	Revision of Lesson 6
Chapter 7	CONCEPT OF MAJOR GAMES AND SPORTS
Day 70	Physical Fitness Test – (for male and female)
Day 71	History of Athletics
Day 72	Standard track
Day 73	Staggers (meaning & formula)
Day 74	Track events (short distance races)
Day 75	Middle & Long distance races
Day 76	Relay & Hurdle races
Day 77	Field events (jumping events - long jump)
Day 78	High jump
Day 79	Triple jump
Day 80	Pole vault
Day 81	Throwing events (shot put throw)
Day 82	Discuss Throw
Day 83	Javelin Throw
Day 84	Hammer Throw
Day 85	Revision of track events
Day 86	Revision of field events
Day 87	History and Measurement of Table -Tennis.
Day 88	Rules and Regulations of Table -Tennis
Day 89	Skills and Terminology of Table -Tennis
Day 90	History and Measurement of Basket ball
Day 91	Rules and Regulations of Basketball
Day 92	Skill and terminology of Basketball
Day 93	History and Measurement of Cricket
Day 94	Rules and Regulations of Cricket
Day 95	Skill and terminology of Cricket

Day 96	Revision of games
Chapter 8	SPORTS MEDICINE , FIRST AID AND REHABILITATION
Day 97	Meaning and definition of Sports medicine.
Day 98	Importance of Sports Medicine.
Day 99	Meaning of drugs for doping (types of doping)
Day 100	Drugs used in Doping/Sports
Day 101	Drugs used in Doping/Sports (continues)
Day 102	Meaning and definition of Sports injuries
Day 103	Types of injuries (Acute injuries- Dehydration)
Day 104	Heat Stroke
Day 105	Exercise Induces Asthma (EIA)
Day 106	Chronic Injuries(Tendonitis)
Day 107	Fractures & its types
Day 108	Stress fractures
Day 109	Dislocation
Day 110	Soft tissue Injuries
Day 111	Meaning, Aims & Principles of First Aid
Day 112	Meaning of Rehabilitation & its importance in sports (RICER)
Day 113	World Antidoping Agency (WADA) & National Antidoping Agency (NADA)
Day 114	Revision of Lesson
Day 115	Multiple choice questions
Day 116	Muscle Injuries (Sprain and Strain)

SUBJECT: COMPUTER SCIENCE

Total Days: 140

UNIT - 1	CENTRAL STRUCTURES IN PYTHON	No. of Days
➤ Conditional Statements		
• If		2
• If else		2
• If – elif – else		2
➤ Loops		
• While Loop		2
• For Loop		2
• Finite Loop And Infinite Loop		2
• Nested Loop		2
• Break And Continue		2
• Practice For Program		2
• Labs And Smart Class Session		2
UNIT - 2	WER –DEFINED FUNCTIONS IN PYTHON	
➤ Concept of a function		1

➤ Creating a function	2
➤ Calling a function	2
➤ Arguments, Arbitrary Arguments	5
➤ Slope of a variable (Local and Global)	3
➤ Functions returning values	4
➤ Practice for programs	2
➤ Labs and smart class session	1
UNIT - 3	INTRODUCTION TO OBJECT ORIENTED PROGRAMMING IN PYTHON
Concept of object – oriented programming	1
Advantages of oops	3
Basic Elements of Oops: Clus, Encapsulation, Polymorphism, Inheritance, Data abstraction, object	5
➤ Access specifiers: <ul style="list-style-type: none"> • Public • Private • Protected 	2
➤ Constructors <ul style="list-style-type: none"> • Concept of constructor • Types of constructor • Default constructor • Parameterised constructor • Concept of destructor 	1 1 4 1 2
UNIT - 4	DATA STRUCTURES IN PYTHON
➤ Arrays <ul style="list-style-type: none"> • Concept of array • Creating an array • Accessing elements of an array • Array length with programs 	1 1 2 1
➤ List <ul style="list-style-type: none"> • Concept Of List • Creating A List • List Items (Ordered, Changeable, Allow Duplicates, List Length) 	1 1 2
➤ Dictionaries <ul style="list-style-type: none"> • Concept Of Dictionaries • Creating A Dictionary • Dictionary Items (Ordered, Changeable, Allow Duplicates, Dictionary Length) 	1 2 2
➤ Tuple <ul style="list-style-type: none"> • Concept Of Tuple • Creating A Tuple With One Item • Tuple Items (Ordered, Changeable, Allow Duplicates, Tuple Length) 	1 2 1

➤ Sets <ul style="list-style-type: none"> • Concept Of Sets • Creating Set • Set Items (Ordered, Changeable, Allow Duplicates, Tuple Length) 	2
UNIT - 5	DATABASE AND SQL
➤ Database and its advantages	1
➤ Relational data model	2
➤ Concept Of Domain, Relation, Attribute, Tuple, Candidate Key, Alternate Key, Primary key, foreign key	3
➤ SQL and its advantages	2
➤ Data types in SQL (number, char, date)	2
➤ DDL,DML,TCL, DCL	1
➤ SQL Commands <ul style="list-style-type: none"> • DDL Commands • Create • Drop • Alter 	3
➤ DML Commands <ul style="list-style-type: none"> • Select • Insert • Update • Delete 	3
➤ SQL Function <ul style="list-style-type: none"> • Sum () • Avg. () • Count. () • Min. () • Max. () 	4
UNIT - 6	BOOLEAN LOGIC
➤ Boolean Operators And, Or, Not	2
➤ Truth table	2
➤ Basic Logic Gates And ,Or, Not	3
➤ Universal gates <ul style="list-style-type: none"> • NAND • NOR • XOR 	4
➤ Laws Of Boolean Algebra <ul style="list-style-type: none"> • Commutative law • Associative law • Distribution law 	With circuit and truth tables 4
➤ Principle of duality	1
➤ Demorgans law (Prove these laws with truth tables and also draw circuit diagrams)	4

UNIT - 7	NETWORKING AND CYBER SECURTING	
➤	Networking and its advantages	
➤	Types of networks <ul style="list-style-type: none"> • L.A.N • W.A.N • M.A.V • P.A.N 	
➤	Network topologies <ul style="list-style-type: none"> • Bus, mesh, hybrid, graph, tree • Star • Ring 	
➤	Modem	
➤	Cyber safety and security <ul style="list-style-type: none"> • Cyber bullying, preventive measures • Computer safety and security • Snooping • Phishing • Internet safety and ethics • Safe social networking • Safe email practices • Dos and Don'ts for cyber safety 	

