

### **GRADE IX CYCLEWISE CURRICULUM 2023-24**

#### **ENGLISH LANGUAGE AND LITERATURE (CODE NO. 184)**

<b>MAIN READER: BEEHIVE (NCERT BOOK)</b> <b>SUPPLEMENTARY READER: MOMENTS (NCERT BOOK)</b>		
<b>CYCLE NO.</b>	<b>CYCLE DATES</b>	<b>TOPIC</b>
<b>Reading Comprehension Passages</b>		
I	5 <sup>th</sup> Apr '23 – 28 <sup>th</sup> Apr '23	<b>Fiction</b> - The Fun They Had <b>Poem</b> - The Road Not Taken <b>S. Reader</b> - The Adventures of Toto, The Lost Child <b>Writing/Grammar</b> - Connectors
II	1 <sup>st</sup> May '23 – 26 <sup>th</sup> May '23	<b>Fiction</b> -The Sound of Music, The Little Girl <b>Poem</b> -Wind <b>S. Reader</b> -Iswaran-the Storyteller <b>Writing/Grammar</b> - Determiners, Descriptive Paragraph
III	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July '23	<b>Fiction</b> - A Truly Beautiful Mind, The Snake and the Mirror <b>Poem</b> - The Lake Isle of Innisfree <b>S. Reader</b> - In the Kingdom of Fools <b>Writing/Grammar</b> - Editing
IV	1 <sup>st</sup> Aug '23 – 1 <sup>st</sup> Sep '23	<b>Poem</b> -Rain on the Roof <b>S. Reader</b> - The Happy Prince , Weathering the Storm in Ersama <b>Writing/Grammar</b> - Diary Writing
V	- <b>Half-Yearly Examination- 5<sup>th</sup> Sep'23 - 18<sup>th</sup> Sep'23</b>	
VI	19 <sup>th</sup> Sep '23 – 29 <sup>th</sup> Sep '23	<b>Fiction</b> - Packing, Reach for the Top, My Childhood <b>Writing/Grammar</b> - Reported Speech
VII	3 <sup>rd</sup> Oct '23 – 31 <sup>st</sup> Oct '23	<b>Fiction</b> -The Bond of Love <b>Poem</b> - No Men are Foreign, A Legend of the Northland <b>S. Reader</b> -The Last Leaf <b>Writing/Grammar</b> - Story Writing
VIII	2 <sup>nd</sup> Nov '23 – 30 <sup>th</sup> Nov '23	<b>Fiction</b> - If I Were You <b>Poem</b> -The Duck and the Kangaroo, On Killing a Tree <b>S. Reader</b> -A House is Not a Home
IX	1 <sup>st</sup> Dec '23 – 29 <sup>th</sup> Dec '23	<b>Fiction</b> - Kathmandu <b>Poem</b> -The Snake Trying, A Slumber Did My Spirit Seal. <b>S. Reader</b> -The Accidental Tourist, The Beggar <b>Writing/Grammar</b> - Dialogue Completion
X	12 <sup>th</sup> Jan '24 – 30 <sup>th</sup> Jan '24	<b>Revision For Annual Examination</b>
XI	5 <sup>th</sup> Feb'24 - 16 <sup>th</sup> Feb'24	<b>Annual Examination</b>

**SECOND LANGUAGE**  
**FRENCH (CODE NO.018)**

**FRENCH SYLLABUS – GRADE IX**  
**BOOK – ENTRE JEUNE-2**

CYCLE NO.	CYCLE DATES	TOPIC/CHAPTER
<b>TERM I</b>		
I	5 <sup>th</sup> Apr'23 - 29 <sup>th</sup> Apr'23	L-1 LA FAMILLE • La nationalité • Les articles définis et indéfinis • Les verbes du groupe « ER » • La description de votre famille.
II	1 <sup>st</sup> May'23 – 26 <sup>th</sup> May'23	L-2 AU LYCÉE • Les Adjectifs démonstratifs • Les verbes du groupe « IR » • Décrivez une personnalité connue.
III	3 <sup>rd</sup> July'23 – 31 <sup>st</sup> July'23	L-3 UNE JOURNÉE DE PAULINE • Les verbes Pronominaux • L'heure • La description de votre journée.
IV	1 <sup>st</sup> Aug'23 – 1 <sup>th</sup> Sep'23	L-4 Les Saisons • Les expressions de Saisons • Les Verbes irréguliers • L'impératif

**Half Yearly Examination - 5<sup>th</sup> Sep'23 - 18<sup>th</sup> Sep'23**

<b>TERM II</b>		
V	19 <sup>th</sup> Sep'23 – 29 <sup>th</sup> Sep'23	L-5 LES VOYAGES • Les prépositions de Lieux • Le passé composé
VI	3 <sup>rd</sup> Oct'23 – 31 <sup>st</sup> Oct'23	L-6 LES LOISIRS ET SPORTS • Les expressions avec des verbes « Jouer » et « Faire » • L'imparfait
VII	2 <sup>nd</sup> Nov'23 – 30 <sup>st</sup> Nov'23	L-7 L'ARGENT DE POCHE • Les expressions négatives • L'importance de l'argent de poche. • Les Pronoms Personnels • Le Passé Récent
VIII	1 <sup>st</sup> Dec'23 – 29 <sup>th</sup> Dec'23	L-8 FAIRE DES ACHATS • Les Magasins • La conjugaison des verbes “OIR”
IX	12 <sup>th</sup> Jan'24 – 30 <sup>th</sup> Jan'24	Récapitulation de la pratique de compréhension écrite, La pratique de grammaire.

**Annual Examination – 5<sup>th</sup> Feb'24 – 16<sup>th</sup> Feb'24**

**SPANISH (CODE NO.096)**

**SPANISH SYLLABUS – GRADE IX**  
**BOOK – AULA INTERNACIONAL 2**

CYCLE NO.	CYCLE DATES	TOPIC/CHAPTER
<b>TERM I</b>		
I	5 <sup>th</sup> Apr'23 – 29 <sup>th</sup> Apr'23	Unidad 1: El Español y Tú Present Tense; Estar+Gerundio Tarea Escrita

		Unidad 2: Una Vida de Película
II	<b>1<sup>st</sup> May'23 – 26<sup>th</sup> May'23</b>	Contrast: Hay (descripción) and Estar (localización con usos de preposición y locuciones de lugar para expresar posición, cercanía, lejanía) Unidad 3: Hogar Dulce Hogar Introduction to the idea of comparison (equality, superiority, inferiority)
III	<b>3<sup>rd</sup> July'23 – 31<sup>st</sup> July'23</b>	Unidad 4: ¿Cómo va todo? Pronombres demostrativos Adjetivos posesivos Tarea Escrita
IV	<b>1<sup>st</sup> Aug'23 – 1<sup>th</sup> Sept'23</b>	Unidad 6: No como carne Unidad 5: Guía del ocio Números cardinales y ordinales Literatura (6 autores)
<b>Half Yearly Examination -5<sup>th</sup> Sep'23 - 18<sup>th</sup> Sep'23</b>		
<b>TERM II</b>		
V	<b>19<sup>th</sup> Sep'23 – 29<sup>th</sup> Sep'23</b>	Unidad 7: Nos gustó mucho Pretérito Perfecto e Indefinido
VI	<b>3<sup>rd</sup> Oct'23 – 31<sup>st</sup> Oct'23</b>	Unidad 8: Estamos muy bien Pretérito Indefinido e Imperfecto de Indicativo
VII	<b>2<sup>nd</sup> Nov'23 – 30<sup>st</sup> Nov'23</b>	Unidad 9: Antes y ahora Pronombres de objeto directo
VIII	<b>1<sup>st</sup> Dec'23 – 29<sup>th</sup> Dec'23</b>	Unidad 10: Momentos Especiales Los artículos definidos e indefinidos Ser y estar
IX	<b>12<sup>th</sup> Jan'24 – 30<sup>th</sup> Jan'24</b>	El Imperativo (Tú & Usted) Literatura
<b>Annual Examination – 5<sup>th</sup> Feb'24 – 16<sup>th</sup> Feb'24</b>		

### GERMAN (CODE NO.020)

GERMAN SYLLABUS – GRADE IX BOOK – BESTE FREUNDE B1.1		
CYCLE NO.	CYCLE DATES	TOPIC/CHAPTER
<b>TERM I</b>		
I	<b>5<sup>th</sup> Apr'23 – 29<sup>th</sup> Apr'23</b>	Wiederholung von wichtigen Themen Lektion 1: Allein zu Hause Subordinate clause: „wenn“+“zu+Infinitiv“ Brauchen + zu+ Infinitiv
II	<b>1<sup>st</sup> May'23 – 26<sup>th</sup> May'23</b>	Lektion 1: Allein zu Hause Genetiv Präposition: während
III	<b>3<sup>rd</sup> July'23 – 31<sup>st</sup> July'23</b>	Lektion 2: Wir kaufen nichts Subordinate clause: “um...zu” “damit”
IV	<b>1<sup>st</sup> Aug'23 – 1<sup>th</sup> Sep'23</b>	Lektion 3: Das würde ich nie tun! KII- würde + Infinitiv Wiederholung
<b>Half Yearly Examination - 5<sup>th</sup> Sep'23 - 18<sup>th</sup> Sep'23</b>		
<b>TERM II</b>		
V	<b>19<sup>th</sup> Sep'23 – 29<sup>th</sup> Sep'23</b>	Lektion 3: Das würde ich nie tun! Verben mit festen Präpositionen
VI	<b>3<sup>rd</sup> Oct'23 – 31<sup>st</sup> Oct'23</b>	Lektion 4: Hamburg, wir kommen! KII- sollen Subordinate clauses of time: “während” and “bevor”
VII	<b>2<sup>nd</sup> Nov'23 – 30<sup>st</sup> Nov'23</b>	Lektion 4: Hamburg, wir kommen! Wortschatz

VIII	<b>1<sup>st</sup> Dec'23 – 29<sup>th</sup> Dec'23</b>	Lektion 5: Alles wird gut! Relativpronomen
IX	<b>12<sup>th</sup> Jan'24 – 30<sup>th</sup> Jan'24</b>	Wiederholung
<b>Annual Examination - 5<sup>th</sup> Feb'24 – 16<sup>th</sup> Feb'24</b>		

### संसृत पाठकम् योजना ( कोड -122)

CYCLE NO	CYCLE DATES	TOPICS
I	<b>5<sup>th</sup> Apr'23 - 29<sup>th</sup> Apr'23</b>	प्रथमः पाठः भारतीवसन्तगीतिः <b>व्याकरणम्</b> - सन्धिः कार्यम् (स्वर सन्धिः) पठनम् - अपठित-अवबोधनम्
II	<b>1<sup>st</sup> May'23 - 26<sup>th</sup> May'23</b>	द्वितीयः पाठः स्वर्णकाकः <b>व्याकरणम्</b> - व्यञ्जनसन्धि (जश्त्वसन्धिः) विसर्ग सन्धिः (उत्तम्, रत्नम्) शब्दरूपाणि (बालक, कवि, साधु, पितृ, लता, नदी, मातृ ) धातुरूपाणि (पठ, गम, वद, भू, क्रीड, नी, दृश, शक् ज्ञा )
III	<b>3<sup>rd</sup> July'23 - 31<sup>st</sup> July'23</b>	तृतीयः पाठः गोदोहनम् <b>व्याकरणम्</b> - उपसर्गाः (द्वाविंशतिः) शब्दरूपाणि (राजन्, भवत्, विद्वस्, गुणिन्) लेखनम् - पत्र-लेखनम् (औपचारिक अनौपचारिक च)
IV	<b>1<sup>st</sup> Aug'23 - 1<sup>st</sup> Sep'23</b>	पञ्चमः पाठः सूक्तिमौक्तिकम् <b>व्याकरणम्</b> - प्रत्ययाः (क्त्वा, तुमुन्, ल्यप्, क्तवत्, शृत्, शानच्, क्त) , संख्याः (1-100) (1-4 केवलं प्रथमा-विभक्तौ ) लेखनम् - चित्र-वर्णनम्
V	<b>5<sup>th</sup> Sep'23 - 18<sup>th</sup> Sep'23</b>	<b>Half Yearly Examination</b>
VI	<b>19<sup>th</sup> Sep'23 - 29<sup>th</sup> Sep'23</b>	षष्ठः पाठः भ्रान्तो बालः <b>व्याकरणम्</b> - कारक तथा उपपद विभक्तयः लेखनम् - संस्कृतेन अनुवादः
VII	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	नवमः पाठः सिकतासेतुः <b>व्याकरणम्</b> - अव्ययानि , शब्दरूपाणि (सर्वनाम शब्दाः- अस्मद्, युष्मद्, तत्, इदम्, किम् ( त्रिषु लिङ्गेषु ) पठनम् - अपठित-अवबोधनम्
VIII	<b>2<sup>nd</sup> Nov'23 - 30<sup>st</sup> Nov'23</b>	दशमः पाठः जटायोः शौर्यम् <b>व्याकरणम्</b> - संस्कृतभाषायाम् अनुवादः धातुरूपाणि (अस्, कृ, दा, क्री, श्रु, पा (पिब), सेब, लभ् (पञ्चसु लकारेषु) लेखनम् - चित्र-वर्णनम्, पत्र-लेखनम्
IX	<b>1<sup>st</sup> Dec'23 - 29<sup>th</sup> Dec'23</b>	एकादशः पाठः पर्यावरणम् , द्वादशः पाठः वाङ्मनः प्राणस्वरूपम् , लेखनम्-अनुच्छेद-लेखनम्
X	<b>12<sup>th</sup> Jan'24 - 30<sup>th</sup> Jan'24</b>	<b>पुनरावृत्ति</b>
XI		<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>

**HINDI -B (CODE NO. (085)**

CYCLE NO	CYCLE DATES	TOPICS
I	5 <sup>th</sup> Apr '23 -28 <sup>th</sup> Apr '23	पाठ-दुःख का अिधकार,रैदास के पद (पद्य), व्याकरण- अनुस्वार, अनुनासिक, शब्द और पद ,अपठित गद्यांश
II	1 <sup>st</sup> May '23-26 <sup>th</sup> May '23	पाठ- रहीम के पद (पद्य), गिल्लू व्याकरण- उपसर्ग-प्रत्यय, शब्द और पद, संवाद लेखन
III	3 <sup>rd</sup> July '23- 31 <sup>st</sup> July'23	पाठ- एवरेस्ट : मेरी शिखर यात्रा, स्मृति व्याकरण – अर्थ के आधार पर वाक्य-भेद, अनुच्छेद लेखन,
IV	1 <sup>st</sup> Aug '23- 1 <sup>st</sup> Sep'23	पाठ- वैज्ञानिक चेतना के वाहक: चंद्रशेखर वेकर ट रामन् व्याकरण – विराम चिन्ह) रचनात्मक लेखन – पत्र-लेखन, चित्र -वणरन
V	5 <sup>th</sup> Sep'23 - 18 <sup>th</sup> Sep'23	<b>Half Yearly Examination</b>
VI	19 <sup>th</sup> Sep'23 - 29 <sup>th</sup> Sep'23	स्पर्श – गीत अगीत (पद्य) व्याकरण – संधि
VII	3 <sup>rd</sup> Oct'23 - 31 <sup>st</sup> Oct'23	पाठ – शुक्रतारे के समान, तुम कब जाओगे अितिथ (गद्य), अग्निपथ (पद्य) पाठ – रचनात्मक लेखन, चित्र -वणरन
VIII	2 <sup>nd</sup> Nov'23 - 30 <sup>st</sup> Nov'23	स्पर्श-पाठ - खुशबू रचते हैं हाथ, संचयन- पाठ- मेरा छोटा-सा निजी पुस्तकालय रचनात्मक लेखन – पत्र-लेखन
IX	1 <sup>st</sup> Dec'23 -29 <sup>th</sup> Dec'23	संचयन- पाठ- कल्लू कुम्हार की उनाकोटी स्पर्श - नए इलाके मे (पद्य) रचनात्मक लेखन – संवाद –लेखन
X	12 <sup>th</sup> Jan - 30 <sup>th</sup> Jan'24	पुनरावृत्ति
XI	<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>	

**MATHEMATICS (CODE NO. 041)**

**TEXTBOOK REFERENCE – NCERT  
REFERENCE BOOK – R.S AGARWAL**

CYCLE NO.	CYCLE DATES	TOPICS
I	<b>5<sup>th</sup> Apr '23 – 28<sup>th</sup> Apr' 23</b>	Chapter - 1 Number Systems Chapter - 2 Polynomials
II	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May '23</b>	Chapter - 3 Coordinate geometry Chapter - 4 Linear equations in two variables
III	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July'23</b>	Chapter- 5 Introduction to Euclid's Geometry Chapter- 6 Lines and Angles Chapter- 12 Heron's formula
IV	<b>1<sup>st</sup> Aug '23 – 1<sup>st</sup> Sept'23</b>	Chapter -7 Triangles
V		<b>Half Yearly Examination-5<sup>th</sup> Sep'23-18<sup>th</sup> Sep'23</b>
VI	<b>9<sup>th</sup> Sept '23 – 29<sup>th</sup> Sept '23</b>	Chapter -14 Statistics Chapter -15 Probability
VII	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	Chapter - 8 Quadrilaterals
VIII	<b>2<sup>nd</sup> Nov'23 – 30<sup>th</sup> Nov'23</b>	Chapter - 9 Areas of Parallelograms and Triangles Chapter - 13 Surface Area and Volume
IX	<b>1<sup>st</sup> Dec'23-29<sup>th</sup> Dec'23</b>	Chapter - 10 Circles Chapter -11 Construction
X	<b>12<sup>th</sup> Jan'24-30<sup>th</sup> Jan'24</b>	Revision For Annual Examination
XI		<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>

**SCIENCE (CODE NO. 086)**

**PHYSICS**

**TEXTBOOK REFERENCE – NCERT**

CYCLE NO.	CYCLE DATES	TOPICS
I	<b>5<sup>th</sup> Apr '23 – 28<sup>th</sup> Apr' 23</b>	<b>Chapter – 8: Motion</b> Describing Motion, Motion Along straight line, Distance and displacement, Uniform & non-uniform motion along a straight line, Speed ,Speed with direction i.e. Velocity ,Distance -

		Displacement, Velocity and acceleration, Uniform & non-uniform motion along a straight line
II	1 <sup>st</sup> May '23 – 26 <sup>th</sup> May '23	<b>Chapter – 8: Motion</b> Distance- time and velocity- time graphs for uniform motion and uniformly accelerated motion, Equations of motion (Introduction) Related Activities- 8.9 - 8.10, Equations of motion by graphical method, Elementary idea of uniform circular motion, Related Activities- 8.11
III	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July'23	<b>Chapter – 9: Force And Laws of Motion</b> Balanced & Unbalanced forces, Force and Motion, Newton's First law of motion, Inertia of a body, Inertia & mass, Newton's Second law of motion, Force and acceleration, Related Activities -9.1 -9.3, Third law of motion, Conservation of momentum, Action and reaction forces, Related activities 9.4 & 9.5
IV	1 <sup>st</sup> Aug '23 – 1 <sup>st</sup> Sep'23	<b>Chapter – 10: Gravitation</b> Gravitation, Universal law of Gravitation, Gravity, Acceleration due to gravity, Calculation of value of 'g', Free fall, Mass & weight, Thrust, Pressure, Archimedes principle, Buoyancy, Relative density
V	<b>Half Yearly Examination-5<sup>th</sup> Sep'23 -18<sup>th</sup> Sep'23</b>	
VI	19 <sup>th</sup> Sep'23 – 29 <sup>th</sup> Sep'23	<b>PRACTICAL BASED QUESTIONS</b>
VII	3 <sup>rd</sup> Oct'23 – 31 <sup>st</sup> Oct'23	<b>Chapter – 11: Work And Energy</b> Scientific conception of Work (done by force), Energy, Forms of energy (kinetic & potential)
VIII	2 <sup>nd</sup> Nov'23 – 30 <sup>th</sup> Nov'23	<b>Chapter – 11: Work And Energy</b> Law of conservation of energy, Power, Commercial unit of energy
IX	1 <sup>st</sup> Dec'23 - 29 <sup>th</sup> Dec'23	<b>Chapter – 12: Sound</b> Production Of Sound, Propagation Of Sound (in various media), Nature Of Sound Wave Characteristics Of Sound, Speed Of Sound
X	12 <sup>th</sup> Jan'24 - 30 <sup>th</sup> Jan'24	<b>Chapter – 12: Sound</b> Reflection Of Sound, Uses of reflection, Ultrasound & its applications, Range Of Hearing, Echo & SONAR, Structure of human Ear
XI	1 <sup>st</sup> Feb - 16 <sup>th</sup> Feb'2024	<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>

## **CHEMISTRY**

### **TEXTBOOK REFERENCE – NCERT**

<b>CYCLE NO.</b>	<b>CYCLE DATES</b>	<b>TOPICS</b>
<b>I</b>	<b>5<sup>th</sup> Apr '23 – 29<sup>th</sup> Apr '23</b>	<b>Ch:1 Matter in our surroundings</b> Physical nature of Matter, Characteristics of Particles of matter Diffusion & Brownian motion, States Of Matter- Solids, Liquids, Gaseous state – Its Characteristics, Interconversion of the three state of matter by Effect of Temperature and Pressure
<b>II</b>	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May '23</b>	<b>Ch: 1 Matter in our surroundings</b> Melting; Boiling; Sublimation, Freezing; vaporization; Latent heat – Latent Heat of Fusion and Latent Heat of Vaporization, Evaporation, Factors affecting Evaporation
<b>III</b>	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July'23</b>	<b>Ch: 2 Is Matter Around Us Pure</b> Pure Substance-Elements & Compounds, Mixture- Homogenous and Heterogeneous, Solution – Its Properties, Concentration of a Solution, Suspension -Its Properties
<b>IV</b>	<b>1<sup>st</sup> Aug '23 – 1<sup>st</sup> Sep'23</b>	<b>Ch: 2 Is Matter Around Us Pure</b> Colloidal – Properties of a colloid, Separating the components of Mixtures – Special techniques, Evaporation, Centrifugation Sublimation
<b>V</b>	<b>6<sup>th</sup> Sep'23 -18<sup>th</sup> Sep'23</b>	<b>Half Yearly Examination</b>
<b>VI</b>	<b>19<sup>th</sup> Sep'23 – 29<sup>th</sup> Sep'23</b>	<b>Ch: 2 Is Matter Around Us Pure</b> Separating the components of Mixtures, Distillation, Fractional distillation, Crystallization, Separation of components of air
<b>VII</b>	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	<b>Ch: 4 Structure of Atom</b> Charged particles in Matter– Electrons, Protons and Neutrons, Models of an Atom –Thomson's Model of an Atom – Postulates & Limitation, Rutherford Model of an Atom - Postulates & Drawbacks
<b>VIII</b>	<b>2<sup>nd</sup> Nov'23 - 30<sup>st</sup> Nov'23</b>	<b>Ch : 4 Structure of Atom</b> Bohr's Model of Atom- Postulates & Limitation, Distribution of electrons in different orbits, Valency –Valence electrons, Atomic Number & Mass number, Isotopes & Isobars – Its Application
<b>IX</b>	<b>1<sup>st</sup> Dec'23-29<sup>th</sup> Dec'23</b>	<b>Ch: 3 Atoms And Molecules</b> Law of Conservation of Mass, Law of Constant proportion Dalton's Atomic Theory – Postulates and Limitation, Atomic Mass unit, How do Atom exist – Molecules of Element and Compounds, Atomicity, Simple Ions and polyatomic ions Compound, Atomicity, Simple Ions and polyatomic ions

X	12 <sup>th</sup> Jan'24-30 <sup>th</sup> Jan'24	<b>Ch: 3 Atoms And Molecules</b> Writing Chemical formulae : Formulae of Simple Compounds, Molecular mass – Gram Molecular mass and Formula unit mass Avogadro Number, Mole concept – Moles of atoms and molecules
XI	<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>	

## BIOLOGY

### TEXTBOOK REFERENCE – NCERT

CYCLE NO.	CYCLE DATES	TOPICS
I	5 <sup>th</sup> Apr '23 – 28 <sup>th</sup> Apr '23	<b><u>Unit II: Organization in the living world</u></b> <b>Ch- 5 The Fundamental Unit of Life</b> Cell as basic unit of Life, what is the Structural Organization of a Cell? Related activities 5.1-5.7, What is the Structural Organization of a Cell? , Cytoplasm, Cell organelles <b>Practical:</b> To Prepare a temporary mount of onion peel and human cheek cell.
II	1 <sup>st</sup> May '23 – 26 <sup>th</sup> May '23	<b><u>Unit II: Organization in the living world</u></b> <b>Ch- 6: Tissues</b> Are Plants and Animals Made of Same Types of Tissues? Plant Tissues: Meristematic tissue, Permanent tissue
III	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July'23	<b><u>Unit II: Organization in the living world</u></b> <b>C- 6: Tissues</b> Animal Tissues, Epithelial ,Epithelial tissue, Connective tissue, Muscular tissue, Nervous tissue <b>Practical:</b> To study parenchyma, striped muscle fibres and nerve cells through permanent slides
IV	1 <sup>st</sup> Aug '23 – 1 <sup>st</sup> Sept'23	<b><u>Unit V : Food Production</u></b> <b>Ch- 15 Improvement in Food Resources</b> Improvement in crop yield, Crop Variety Improvement Crop Production Management, Manure, Fertilisers, Irrigation, Cropping patterns <b>Practical:</b> To test the presence of starch in given food
V		<b>Half Yearly Examination -5<sup>th</sup> Sep'23 - 18<sup>th</sup> Sep'23</b>
VI	19 <sup>th</sup> Sept '23 – 29 <sup>th</sup> Sept '23	<b><u>Unit V : Food Production</u></b> <b>Chapter- 15 Improvement in Food Resources</b> Crop Protection Management, Animal Husbandry, Poultry Farming, Fish Production, Bee Keeping

VII	<b>3<sup>rd</sup> Oct'23 – 31<sup>st</sup> Oct'23</b>	<b>Unit II: Organization in the living world</b> <b>Chapter-7 Diversity in living organisms</b> What is the basis of Classification? Classification and Evolution The Hierarchy of Classification: Group, Monera, Protista Fungi, Kingdom Plantae. <b>Practical:</b> To study the characteristics of Spirogyra, Agaricus, Moss, Fern, Pinus and an Angiosperm plant.
VIII	<b>2<sup>nd</sup> Nov'23 – 30<sup>th</sup> Nov'23</b>	<b>Unit II: Organization in the living world</b> <b>Chapter-7:Diversity in living organism</b> Kingdom Animalia, Related activity- 7.3-7.4, Nomenclature <b>Practical:</b> To observe the given specimen of earthworm, cockroach, bony fish and bird.
IX	<b>1<sup>st</sup> Dec'23- 29<sup>th</sup> Dec'23</b>	<b>Unit II: Organization in the living world</b> <b>Chapter-13 Why do we fall ill?</b> Health and its Failure, Disease, Its Causes, Infectious Diseases, Organ specific and tissue specific manifestation, Principle of Treatment & Prevention
X	<b>12<sup>th</sup> Jan'24- 30<sup>th</sup> Jan'24</b>	<b>Unit IV: Our Environment</b> <b>Chapter-14 Natural Resources</b> The Breath of Life: Air, Water: A Wonder Liquid, Mineral Riches in the Soil, Biogeochemical cycles
XI		<b>Annual Examination- 5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>

### SOCIAL SCIENCE (CODE NO. 087)

#### HISTORY

TEXTBOOK REFERENCE – INDIA AND THE CONTEMPORARY WORLD I		
CYCLE NO.	CYCLE DATES	TOPICS
I	<b>5<sup>th</sup> Apr '23 – 28<sup>th</sup> Apr '23</b>	<b>Chapter 1:</b> The French Revolution.
II	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May '23</b>	<b>Chapter 2:</b> Socialism In Europe And The Russian Revolution.
III	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July'23</b>	<b>Chapter 3:</b> Nazism And The Rise Of Hitler.
IV	<b>1<sup>st</sup> Aug '23 – 1<sup>th</sup> Sep'23</b>	Revision.
V	<b>Half Yearly Examination-6<sup>th</sup> Sep'23 -18<sup>th</sup> Sep'23</b>	
VI	<b>19<sup>th</sup> Sep'23 – 29<sup>th</sup> Sep'23</b>	<b>Chapter 4:</b> Forest, Society And Colonialism.
VII	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	<b>Chapter 4:</b> Forest, Society And Colonialism.
VIII	<b>2<sup>nd</sup> Nov'23 - 30<sup>st</sup> Nov'23</b>	<b>Chapter 5:</b> Pastoralists In The Modern World.

<b>IX</b>	<b>1<sup>st</sup> Dec'23-29<sup>th</sup> Dec'23</b>	<b>Chapter 5:</b> Pastoralists In The Modern World.
<b>X</b>	<b>2<sup>th</sup> Jan'24-30<sup>th</sup> Jan'24</b>	<b>Revision</b>
<b>XI</b>	<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>	

### **POLITICAL SCIENCE**

#### **TEXTBOOK REFERENCE –DEMOCRATIC POLITICS-I**

<b>CYCLE NO</b>	<b>CYCLE DATES</b>	<b>TOPICS</b>
<b>I</b>	<b>5<sup>th</sup> Apr '23 – 28<sup>th</sup> Apr '23</b>	<b>Chapter 1:</b> What is democracy? Why democracy?
<b>II</b>	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May '23</b>	<b>Chapter 2:</b> Constitutional Design.
<b>III</b>	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July'23</b>	<b>Chapter 3:</b> Electoral Politics.
<b>IV</b>	<b>1<sup>st</sup> Aug '23 – 1<sup>th</sup> Sep'23</b>	Revision.
<b>V</b>	<b>Half Yearly Examination-6<sup>th</sup> Sep'23 -18<sup>th</sup> Sep'23</b>	
<b>VI</b>	<b>19<sup>th</sup> Sep '23 – 29<sup>th</sup> Sep'23</b>	<b>Chapter 4:</b> Working of Institutions.
<b>VII</b>	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	<b>Chapter 4:</b> Working of Institutions.
<b>VIII</b>	<b>2<sup>nd</sup> Nov'23 - 30<sup>st</sup> Nov'23</b>	<b>Chapter 5:</b> Democratic Politics.
<b>IX</b>	<b>1<sup>st</sup> Dec'23-29<sup>th</sup> Dec'23</b>	<b>Chapter 5:</b> Democratic Politics.
<b>X</b>	<b>12<sup>th</sup> Jan'24-30<sup>th</sup> Jan'24</b>	Revision
<b>XI</b>	<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>	

### **ECONOMICS**

#### **TEXTBOOK REFERENCE – TEXTBOOK IN ECONOMICS**

<b>CYCLE NO</b>	<b>CYCLE DATES</b>	<b>TOPICS</b>
<b>I</b>	<b>5<sup>th</sup> Apr '23 – 28<sup>th</sup> Apr' 23</b>	<b>Chapter 1:</b> The Story Of Village Palampur
<b>II</b>	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May '23</b>	<b>Chapter 1 :</b> The Story Of Village Palampur
<b>III</b>	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July'23</b>	<b>Chapter 2:</b> People As Resource

<b>IV</b>	<b>1<sup>st</sup> Aug '23 – 1<sup>st</sup> Sep'23</b>	<b>Chapter 2: People As Resource</b>
<b>V</b>	<b>Half -Yearly Examinations-6<sup>th</sup> Sep'23 -18<sup>th</sup> Sept'23</b>	
<b>VI</b>	<b>19<sup>th</sup> Sep'23 – 29<sup>th</sup> Sep'23</b>	<b>Chapter 3: Poverty As A Challenge</b>
<b>VII</b>	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	<b>Chapter 3: Poverty As A Challenge</b>
<b>VIII</b>	<b>2<sup>nd</sup> Nov'23 - 30<sup>st</sup> Nov'23</b>	<b>Chapter 4: Food Security In India</b>
<b>IX</b>	<b>1<sup>st</sup> Dec'23-29<sup>th</sup> Dec'23</b>	<b>Chapter 4 :Food Security In India</b>
<b>X</b>	<b>12<sup>th</sup> Jan'24-30<sup>th</sup> Jan'24</b>	<b>Revision</b>
<b>XI</b>	<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>	

## **GEOGRAPHY**

### **TEXTBOOK REFERENCE – CONTEMPORARY INDIA I**

<b>CYCLE NO</b>	<b>CYCLE DATES</b>	<b>TOPICS</b>
<b>I</b>	<b>5<sup>th</sup> Apr'23 – 28<sup>th</sup> Apr'23</b>	<b>Chapter -1: India: Size And Location</b>
<b>II</b>	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May'23</b>	<b>Chapter-2: Physical Feature Of India</b>
<b>III</b>	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July'23</b>	<b>Chapter-2: Physical Features Of India</b>
<b>IV</b>	<b>1<sup>st</sup> Aug '23 – 1<sup>st</sup> Sep'23</b>	<b>Chapter-3: Drainage</b>
<b>V</b>	<b>Half Yearly Examination-5<sup>th</sup> Sep'23 -18<sup>th</sup> Sep'23</b>	
<b>VI</b>	<b>19<sup>th</sup> Sep'23 – 29<sup>th</sup> Sep '23.</b>	<b>Chapter-4: Climate</b>
<b>VII</b>	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	<b>Chapter-4: Climate</b>
<b>VIII</b>	<b>2<sup>nd</sup> Nov'23 – 30<sup>th</sup> Nov'23</b>	<b>Chapter-5: Natural Vegetation And Wildlife</b>
<b>IX</b>	<b>1<sup>st</sup> Dec'23-29<sup>th</sup> Dec'23</b>	<b>Chapter-6: Population</b>
<b>X</b>	<b>12<sup>th</sup> Jan'24-30<sup>th</sup> Jan'24</b>	<b>Revision</b>
<b>XI</b>	<b>Annual Examination-5<sup>th</sup> Feb'24 -16<sup>th</sup> Feb'24</b>	

**ARTIFICIAL INTELLIGENCE (CODE NO. 417)**

TEXTBOOK REFERENCE – ARTIFICIAL INTELLIGENCE			
CYCLE NO.	CYCLE DATES	TOPIC	SUB TOPICS
I	5 <sup>th</sup> Apr '23 – 29 <sup>th</sup> Apr '23	Ch- 1 Introduction To Artificial Intelligence	What is Intelligence? Applications of AI Types of Intelligence Applications of various domains of AI. Smart Home & Solutions
II	1 <sup>st</sup> May '23 – 26 <sup>th</sup> May '23	Ch-2 Sustainable Development Goals	What are sustainable goals? What is not SDG? How AI can help achieve SDG
III	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July'23	Ch-3 Future Job Advertisement	Research on job profiles in the field of Health, Security, Education, Entertainment, Service, Transport.
III	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July'23	Ch-4 AI Ethics	Importance of ethics Various ethical issues related to AI
IV	1 <sup>st</sup> Aug '23 – 1 <sup>th</sup> Sep'23	AI Project Cycle	Introduction to AI Project Cycle, Understanding Problem Scoping & Sustainable Development Goals Simplifying Data Acquisition Visualizing Data
V	<b>Half Yearly Examination - 6<sup>th</sup> Sep'23 -18<sup>th</sup> Sep'23</b>		
VI	19 <sup>th</sup> Sep'23 – 29 <sup>th</sup> Sep'23	Neural Networks	Introduction, ANN vs HNN How NN learn? Classification, Regression, Clustering
VII	3 <sup>rd</sup> Oct'23 - 31 <sup>st</sup> Oct'23	Algorithms And Flowcharts	What is Algorithm Flowcharts
VIII	2 <sup>nd</sup> Nov'23 - 30 <sup>st</sup> Nv'23	Introduction To Python	Introduction to Print(), input(), comments, variables
IX	1 <sup>st</sup> Dec'23-29 <sup>th</sup> Dec'23	Introduction To Python	Lists tuples, creation, deletion, amending etc
X	12 <sup>th</sup> Jan'24-30 <sup>th</sup> Jan'24	REVISION	
XI	<b>Annual Examination-5<sup>th</sup> Feb'24-16<sup>th</sup> Feb'24</b>		