

PHYSICS SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (UT)			
✓ Chapters	Blue Print	UT-1	Marks
✓ Ch- 2: Needs for Measurements.	MCQ	(1x7)	7
✓ Ch- 3: Motion in a straight line.	Very Short Question		
	Assertion Reason	(1x2)	2
	Short Question-1	(2 x 3)	6
	Short Question-2	(3 x 5)	15
	Long questions including Case Study (5 x 2)		10
	Total		40
✓ Practicals	Blue Print	Practicals	Marks
✓ To find the dimensions of cylinder (hollow/solid) using vernier callipers	Experiment		10
✓ To find the volume of sphere using vernier callipers	Activity		5
✓ Class record and VIVA	Practical Record		5
	VIVA- Voce		10
	Total		30
❖ First Term Exam			
✓ Chapters	Blue Print	First Term	Marks
✓ Ch- 2: Needs for Measurements.	MCQ	(1x12)	12
✓ Ch- 3: Motion in a straight line.	Very Short Question		
✓ Ch. 4: Motion in a plane.	Assertion Reason	(1x4)	4
✓ Ch. 5: Laws of motion	Short Question-1	(2 x 5)	10
✓ Ch. 6: Work, Energy & Power	Short Question-2	(3 x 7)	21
✓ Ch. 7: System of Particles and Rotational Motion	Case Study	(4 x 2)	8
✓ Ch-8: Gravitation	Long Questions	(5 x 3)	15
	Total		70
❖ PERIODIC TEST -2 (UT)			
✓ Chapters	Blue Print	UT-2	Marks
✓ Ch. 8: Gravitation	MCQ	(1x7)	7
✓ Ch. 9: Mechanical properties of Solids	Very Short Question		
✓ Ch. 10: Mechanical properties of Fluids	Assertion Reason	(1x2)	2
	Short Question-1	(2 x 3)	6
	Short Question-2	(3 x 5)	15
	Long questions including Case Study (5 x 2)		10
	Total		40

✓ Practicals	Blue Print	Practicals	Marks
✓ To find the thickness of metal wire using screw gauge	Experiment		10
✓ To study variation of time period of simple pendulum of given length by taking bob of some size and of different masses.	Activity		5
✓ Class record and VIVA	Practical Record		5
	VIVA- Voce		10
	Total		30
❖ Final Term Exam			
✓ Chapters	Blue Print	Final Term	Marks
✓ Ch- 2: Needs for Measurements.	MCQ	(1x12)	12
✓ Ch- 3: Motion in a straight line.	Very Short Question		
✓ Ch. 4: Motion in a plane.	Assertion Reason	(1x4)	04
✓ Ch. 5: Laws of motion	Short Question-1	(2 x 5)	10
✓ Ch. 6: Work, Energy & Power	Short Question-2	(3 x 7)	21
✓ Ch. 7: System of Particles and Rotational Motion	Case Study	(4 x 2)	8
✓ Ch. 8: Gravitation	Long Questions	(5 x 3)	15
✓ Ch. 9: Mechanical properties of Solids	Total		70
✓ Ch. 10: Mechanical properties of Fluids			
✓ Ch. 11: Thermal properties of Matter			
✓ Ch.12: Thermodynamics			
✓ Ch.13: Kinetic Theory of Gases			
✓ Ch. 14: Oscillations			
✓ Ch. 15: Waves			

Marks Distribution

Unit	<u>Chapter Name</u>	<u>Marks</u>
Unit- 1	Ch- 2:Units and Measurements.	23
Unit- 2	Ch- 3:Motion in a straight line.	
	Ch. 4: Motion in a plane.	
Unit- 3	Ch. 5: Laws of motion	17
Unit- 4	Ch. 6: Work, Energy & Power	
Unit- 5	Ch. 7: System of Particles and Rotational Motion	
Unit- 6	Ch. 8: Gravitation	17
Unit- 7	Ch. 9: Mechanical properties of Solids	
	Ch. 10: Mechanical properties of Fluids	
	Ch. 11: Thermal properties of Matter	

Unit- 8	Ch. 12:Thermodynamics	20
Unit- 9	Ch. 13: Kinetic Theory of Gases	
Unit 10	Ch. 14: Oscillations	10
	Ch. 15:Waves	
Total		70

Month wise Syllabus

Month	Chapter's Name
April	Ch- 2:Units and Measurements.
	Ch- 3:Motion in a straight line.
May	Ch. 4: Motion in a plane.
June	_____Vacations_____
July	Ch. 6: Work, Energy & Power
	Ch. 5: Laws of motion
August	Ch. 7: System of Particles and Rotational Motion
	Ch. 8: Gravitation
September	1st Terminal
October	Ch. 9: Mechanical properties of Solids
	Ch. 10: Mechanical properties of Fluids
November	Ch. 11: Thermal properties of Matter
	Ch. 12:Thermodynamics
	Ch. 13: Kinetic Theory of Gases
December	Ch. 15:Waves
	Ch. 14: Oscillations
January-February	Revision. Topics will be discussed: Electric Charges Electric Field Electric Potential and Capacitance
March	Final Board Examination

PRACTICALS

The record to be submitted by the students at the time of their annual examination has to include:

- Record of at least 8 Experiments [with 4 from each section], to be performed by the students.
- Record of at least 6 Activities [with 3 each from section A and section B], to be performed by the students.

CHEMISTRY SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (PT)			
• Chapters	Blue Print	PT-1	Marks
✓ Chapter - 1 :Some Basic Concepts of Chemistry	MCQs	(1 x 7)	7
✓ Chapter - 2: Structure of Atom	Assertion Reason Questions (1 x 2)		2
	Short Answer Questions Type 1 (2 x 4)		8
	Short Answer Questions Type 2 (3 x 3)		9
	Case Study (4 x 1)		4
	Long Questions (5 x 2)		10
	Total		40
❖ PRACTICALS			
• Volumetric Analysis	Blue Print	Practicals	Marks
• Salt Analysis	• Volumetric Analysis		10
• Practical Record and VIVA	• Salt Analysis		10
	• Practical Record and VIVA		10
	Total		30
❖ First Term Exam			
• Chapters	Blue Print	First Term	Marks
✓ Chapter - 1 :Some Basic Concepts of Chemistry	MCQs	(1 x 12)	12
✓ Chapter - 2: Structure of Atom	Assertion Reason Questions (1 x 4)		4
✓ Chapter - 3: Classification of Elements and Periodicity in properties	Short Answer Questions Type- 1 (2 x 5)		10
✓ Chapter - 4: Chemical Bonding and Molecular structure	Short Answer Questions Type- 2 (3 x 7)		21
✓ Chapter – 8: Redox Reactions	Case Study (4 x 2)		8
	Long Answer Questions (5 x 3)		15
	Total		70
❖ PERIODIC TEST -2 (UT)			
• Chapters	Blue Print	UT-2	Marks
✓ Chapter - 6: Chemical Thermodynamics	MCQ	(7 X 1)	7
✓ Chapter- 12: Organic Chemistry- Some Basic Principles and Techniques (Nomenclature of Organic Compounds)	Assertion Reason (2 x 1)		2
	Very Short Question (2 x 4)		8
	Short Question (3 x 3)		9
	Case Study (1 x 4)		4
	Long Questions (2 x 5)		10
	Total		40
❖ FINAL PRACTICALS			
• Volumetric Analysis	Blue Print	Practicals	Marks
• Salt Analysis	• Volumetric Analysis		10
• Practical Record and VIVA	• Salt Analysis		10
	• Practical Record and VIVA		10
	Total		30

❖ Final Term Exam			
• Chapters	Blue Print	Second Term	Marks
✓ Chapter - 1 :Some Basic Concepts of Chemistry	MCQs	(1 x 12)	12
✓ Chapter - 2: Structure of Atom	Assertion Reason Questions	(1 x 4)	4
✓ Chapter - 3: Classification of Elements and Periodicity in properties	Short Answer Questions Type- 1	(2 x 5)	10
✓ Chapter - 4: Chemical Bonding and Molecular structure	Short Answer Questions Type- 2	(3 x 7)	21
✓ Chapter - 6: Chemical Thermodynamics	Case Study	(4 x 2)	8
✓ Chapter – 8: Redox Reactions	Long Answer Questions	(5 x 3)	15
✓ Chapter - 12: Organic Chemistry - Some basic principles and techniques	Total		70
✓ Chapter - 13: Hydrocarbons			
✓ Chapter - 7: Equilibrium			

Marks Distribution

<u>Sr. No.</u>	<u>Chapter Name</u>	<u>Marks</u>
1.	Some Basic Concepts of Chemistry	7
2.	Structure of Atom	9
3.	Classification of Elements and Periodicity in Properties	6
4.	Chemical Bonding and Molecular Structure	7
5.	Chemical Thermodynamics	9
6.	Equilibrium	7
7.	Redox Reactions	4
8.	Organic Chemistry: Some Basic Principles and Techniques	11
9.	Hydrocarbons	10
	Total	70

Month wise Syllabus

Month	Chapter's Name
Apr	Chapter - 1 :Some Basic Concepts of Chemistry
May	Chapter - 2: Structure of Atom
June	_____Vacations_____
July	Chapter - 3: Classification of Elements and Periodicity in properties
	Chapter - 4: Chemical Bonding and Molecular structure
August	Chapter – 8: Redox Reactions
September	First Term Examination
October	Chapter - 6: Chemical Thermodynamics
	Chapter - 12: Organic Chemistry - Some basic principles and techniques
November	Chapter - 13: Hydrocarbons
December	Chapter - 7: Equilibrium
January	_____Revision_____
February	_____Revision_____
March	Final Term Examination

Practicals :

1. To Prepare the crystals of copper sulphate.
2. Preparation of standard solution of oxalic acid.
3. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.
4. To identify one cation and one anion from the given salt.

Book References :

1. NCERT Chemistry
2. Pradeep's New Course CHEMISTRY

ENGLISH SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (UT)		
	Blue Print UT-1	Marks
➤ Literature:	✓ Reading	10
✓ Ch-1 The Portrait of a lady	✓ Writing	5
✓ Ch- 2 We're Not Afraid to Die....if We Can All Be Together	✓ Grammar	8
✓ Poem - A Photograph	✓ Literature	17
✓ Poem- The Voice of the Rain		
➤ Writing Skills:		
✓ Classified Advertisements		
✓ Notice Writing		
➤ Grammar	Total	40
✓ Gap fillings (Determiners, Tenses)		
✓ Sentence Reordering		
➤ Reading Skills:		
✓ Unseen Passages (Descriptive)		
✓ Reference to the Context		
❖ SEA -1		
✓ ASL (Assessment of Speaking and Listening)	Blue Print SEA-1	Marks
	✓ Listening	5
	✓ Speaking	5
	Total	10
❖ First Term Exam		
➤ Reading		
✓ Unseen Passages (Descriptive, Case based and factual)	Blue Print First Term	Marks
✓ Note- Making		
✓ Reference to the Context		
➤ Grammar	➤ Section A (Reading)	
✓ Error Correction, Gap Filling, Sentence Reordering	✓ Unseen Passage	10
➤ Writing Task:	✓ Note Making	5
✓ Classified Advertisements	✓ Summarization	3
✓ Notice Writing	✓	
✓ Speech Writing	➤ Section B (Writing)	
✓ Letter to the Editor	✓ Notice Writing	11
	✓ Advertisements	
➤ Literature	✓ Letter, Speech	
✓ Ch-1 The Portrait of a lady	✓ Grammar: Error Correction, Gap Filling, Sentence Reordering	
✓ Ch- 2 We're Not Afraid to Die....if We Can All Be Together		
✓ Poem - A Photograph		
✓ Poem- The Voice of the Rain		
✓ Ch - 3 Discovering Tut: the Saga Continues		11
✓ Poem - The Laburnum Top	➤ Section C (Literature)	

✓ Ch- 1 The Third Level	One Extract (Poetry) Hornbill	6
✓ Ch- 2 The Tiger King	One Extract (Prose) Hornbill	6
✓ Ch- Journey to the End of the Earth	One Extract (Prose) Vistas	4
	Five short Answer type questions (Poetry, Prose) (5x2)	10
	Short Answer type Questions (Vistas) (2x2)	4
	Long Answer type Questions (Poetry/ Prose from Hornbill) (5x1)	5
	Long Answer type Questions (Poetry/ Prose from Vistas (5x1)	5
	Total	80

❖ PERIODIC TEST -2 (UT)			
	Blue Print	UT-2	Marks
➤ Literature:	✓ Reading		10
✓ Ch-7: The Adventure	✓ Writing		5
✓ Ch-4: The Enemy	✓ Grammar		8
✓ Poem: Childhood	✓ Literature		17
✓ Poem: Father to Son			
➤ Writing Skills:			
✓ Invitations			
➤ Grammar	Total		40
✓ Sentence Reordering			
✓ Error Corrections			
➤ Reading Skills:			
✓ Unseen passages			
✓ Note- Making			
❖ SEA -2			
✓ ASL (Assessment of Speaking and Listening)	Blue Print	SEA-2	Marks
	✓ Listening		5
	✓ Speaking		5
	Total		10
❖ Second Term Exam			
	Blue Print	Second Term	Marks
➤ Literature:	✓ Section A (Reading)		
✓ Ch-7: The Adventure	✓ Unseen Passage		10
✓ Ch-4: The Enemy	✓ Note Making		5
✓ Ch-8: Silk Road	✓ Summarization		3
✓ Ch-6 On the Face of It.			
✓ Ch-8. Memoies of Childhood	➤ Section B (Writing)		
✓ The Cutting of My Long Hair	✓ Notice Writing		11
✓ We Too are Human Beings	✓ Advertisements		
✓ Poem: Childhood	✓ Letter, Speech		
✓ Poem: Father to Son	✓ Grammar: Error Correction, Gap Filling, Sentence Reordering		

➤ Writing Skills:		
✓ Invitations	➤ Section C (Literature)	
✓ Article Writing	✓ One Extract (Poetry) Hornbill	6
✓ Letter to Editor	✓ One Extract (Prose) Hornbill	6
✓ Speech Writing	✓ One Extract (Prose) Vistas	4
➤ Grammar	✓ Five short Answer type questions (Poetry, Prose) (5x2)	10
✓ Reordering of Sentences	✓ Short Answer type Questions (Vistas) (2x2)	4
✓ Error Correction	✓ Long Answer type Questions (Poetry/ Prose from Hornbill) (5x1)	5
✓ Gap Fillings	✓ Long Answer type Questions (Poetry/ Prose from Vistas (5x1)	5
➤ Reading Skills:		
✓ Note Making		
✓ Unseen Passage		
✓ Textual Questions (MCQ's and Objective type questions)		
Including Term -1 Syllabus (Full Syllabus)		
	Total	80

Marks Distribution

Section	Competencies	Total Marks
Reading Skills	Conceptual understanding, decoding, Analyzing, inferring, interpreting, appreciating, literacy, conventions and vocabulary, note making and summarizing using appropriate format/s.	18
Writing Skills and Grammar	Conceptual understanding, application of rules, Analysis Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.	22
Literature Text Books and Supplementary Reading Texts	Recalling, reasoning, critical thinking, appreciating literacy convention, inference, analysis, creativity with fluency.	40
	Total	80
	Assessment of Listening and Speaking Skills	10
	Internal Assessment	
	<ul style="list-style-type: none"> ● Listening ● Speaking ● Project Work 	5 5 10
	Grand Total	100

Month wise Syllabus

Month	Chapter Name
April	Ch-1 The Portrait of a lady
	Grammar: Tenses
May	✓ Ch- 2 We're Not Afraid to Die....if We Can All Be Together
	✓ Poem - A Photograph
	✓ Poem- The voice of the Rain
	➤ Writing Skills – Classified Advertisements Notice Writing
	➤ Grammar - Gap Filling (Determines, Tenses) Sentence Reordering
	➤ Reading - ✓ Unseen Passages (Descriptive) ✓ Reference to the Context
June	Summer Break
July	Ch - 3 Discovering Tut: The Saga Continues
	Poem - The Laburnum Top
	Poem - The Voice of the Rain
	Ch- 1 The Third Level
	Ch- 2 The Tiger King
	Writing Skill - Poster Making (Event Poster)
	Grammar - error correction)
August	Ch- 3 Journey to the End of the Earth
	Writing skills – Letter to the Editor
	Reading Skill- Note Making
	Revision: Ch21, Ch 2 Gap Filling, Note Making
September	Revision: Ch-1, Ch-2, Ch-3
	Speech Writing, Error Correction
	Letter to the Editor
	Reference to the Context
	Unseen Passages (Factual)

October	Ch - 7 The Adventure
	Poem - Childhood
	Ch - The Enemy
	Reading Skills - Note Making
	Writing Skills - Invitations
	Grammar - Reordering of sentence
November	Ch -8. Silk Road
	Ch-6. On the Face of It.
	Poem- Father to Son
	Writing- Article Writing
	Grammar- Practice of Error Correction
December	Ch-8. Memories of Childhood
	The Cutting of My Long Hair
	We Too are Human Beings
	Writing- Letter to Editor Speech Writing
	Reading- Unseen Passage
	Textual Questions (MCQ's and objective type questions)
January	<ul style="list-style-type: none"> • Winter Break • Project Work • Assessment of listening and speaking
	Revision:
	Reading – (Case based factual) Unseen passages Note- Making
February	Writing:
	Invitations, Letter to Editor, Article Writing, Speech Writing, Notice Writing
	Grammar:
	Gap Filling, Sentence Reordering, Error Correction
	Hornbill: Ch-1, Ch-7, Ch-8
	Vistas: Ch-1, Ch-4, Ch-6, Ch-8
	Poem: Childhood, Father to Son, Voice of the Rain, A photograph.
March	Final Term Examination

MATHS SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (PT)			
➤ Chapters	Blue Print	PT-1	Marks
✓ Ch.1 Sets	MCQ & Assertion Reason	(1x11)	11
✓ Ch.2 Relations and functions.	Very Short Questions	(2x3)	06
✓ Ch.4 Complex Numbers	Short Questions	(3x3)	09
	Long Questions	(5x2)	10
	Cased based Questions	(4x1)	04
	Total		40
❖ SEA -1			
MCQs (Pen Paper Test)	Blue Print	SEA-1	Marks
Assertion Reason	MCQs		10
Case Study	Assertion Reason		01
VIVA Voce	Case Study		04
	VIVA Voce		05
	Total		20
❖ First Term Exam			
	Blue Print	First Term	Marks
✓ Ch.1 Sets	MCQ & Assertion Reason	(1x20)	20
✓ Ch.2 Relations and functions	Very Short Questions	(2x5)	10
✓ Ch.3. trigonometric functions	Short Questions	(3x6)	18
✓ Ch.4 Complex Numbers	Long Questions	(5x4)	20
✓ Ch.5 Linear Inequalities	Cased based Questions	(4x3)	12
✓ Ch.6. Permutations and combinations			
✓ Ch.8.Sequence and series			
✓ Ch.11. Introduction to three dimensional geometry			
✓ Ch.13.Statistics			
	Total		80
❖ PERIODIC TEST -2 (PT)			
➤ Chapters	Blue Print	PT-2	Marks
✓ Ch.6. Permutations and combinations	MCQ & Assertion Reason	(1x11)	11
✓ Ch.10.Conic sections	Very Short Questions	(2x3)	06
✓ Ch. 12. Limits and derivatives	Short Questions	(3x3)	09
	Long Questions	(5x2)	10
	Cased based Questions	(4x1)	04
	Total		40

❖ SEA -II			
MCQs (Pen Paper Test)	Blue Print	SEA-2	Marks
Assertion Reason	MCQs		10
Case Study	Assertion Reason		01
VIVA Voce	Case Study		04
	VIVA Voce		05
	Total		20

❖ Second Term Exam			
➤ Chapters	Blue Print	Second Term	Marks
✓ Ch.1 Sets	MCQ & Assertion Reason (1x20)		20
✓ Ch.2 Relations and functions	Very Short Questions	(2x5)	10
✓ Ch.3. trigonometric functions	Short Questions	(3x6)	18
✓ Ch.4 Complex Numbers	Long Questions	(5x4)	20
✓ Ch.5 Linear Inequalities	Cased based Questions	(4x3)	12
✓ Ch.6. Permutations and combinations			
✓ Ch.7 Binomial Theorem.			
✓ Ch.8.Sequence and series.			
✓ Ch.9 Straight lines.			
✓ Ch.10.Conic sections.	Total		80
✓ Ch.11. Introduction to three dimensional geometry.			
✓ Ch. 12. Limits and derivatives			
✓ Ch.13.Statistics			
✓ Ch.14.Probability			

Marks Distribution

Unit	Chapter Name	Marks
Unit- 1	Sets and functions	23
	Ch.1 Sets	
	Ch.2 Relations and functions.	
	Ch.3. trigonometric functions.	
Unit- 2	Algebra	25
	Ch.4 Complex Numbers	
	Ch.5 Linear Inequalities	
	Ch.6. Permutations and combinations.	
	Ch.7 Binomial Theorem.	
	Ch.8.Sequence and series.	

Unit- 3	Co-ordinate Geometry	12
	Ch.9 Straight lines.	
	Ch.10.Conic sections.	
	Ch.11. Introduction to three dimensional geometry.	
Unit- 4	Calculus	12
	Ch. 12. Limits and derivatives	
Unit- 5	Statistics and Probability	8
	Ch.13.Statistics	
	Ch.14.Probability	
	Total	80

Month wise Syllabus

Month	Chapter's Name
April	Ch- 1 (Sets)
	Ch-2 (Relations and Functions)
	Ch-5 (Complex Numbers)
May	Ch-3 (Trigonometric Functions)
	Ch-6 (Linear Inequalities)
	Ch-15 (Statistics)
June	_____ Vacations _____
July	Ch-7(Permutations and Combinations)
	Ch-9(Sequences and Series)
	Ch-12(Introduction to Three Dimensional Geometry)
August	Revision for 1st Terms
September	First Term Examination
October	Ch-10 (Straight Lines)
	Ch-11(Conic Sections)
	Ch-13 (Limits and Derivatives)
November	Ch-16 (Probability)
	Ch-8 (Binomial THEOREM)
December	Revision of Ch- 2, 3, 4 (Exam decoded questions)
January	Revision of Ch- 9, 10, 12 (Exam decoded questions)
February	Revision of Ch- 1, 6, 7, 13, 14 (Exam decoded questions) and Doubt session
March	Final Board Examination

BIOLOGY SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (PT)			
➤ Unit -V: HUMAN PHYSIOLOGY	Blue Print	PT-1	Marks
✓ Ch: Breathing and Exchange of gases	MCQs	(1 x7)	7
✓ Ch: Body Fluids and Circulation	Assertion Reason type Questions	(1 x 2)	2
✓ Ch: Excretory products and their Elimination	Short Answer Questions Type 1	(2 x 4)	8
	Short Answer Questions Type 2	(3 x 3)	9
	Case Study	(4 x 1)	4
	Long Questions	(5 x 2)	10
	Total		40
➤ Practical			
	Blue Print		Marks
✓ One major Experiment	One major Experiment		5
✓ One Minor Experiment	One Minor Experiment		4
✓ Slide Preparation	Slide Preparation		5
✓ Spotting	Spotting		7
✓ Practical Record	Practical Record		4
✓ VIVA	VIVA		5
	Total		30
❖ First Term Examination			
➤ Unit -V: HUMAN PHYSIOLOGY	Blue Print	First Term	Marks
✓ Ch: Breathing and Exchange of gases	MCQs	(1 x 12)	12
✓ Ch: Body Fluids and Circulation	Assertion Reason Questions	(1 x 4)	4
✓ Ch: Excretory products and their Elimination	Short Answer Questions Type- 1	(2 x 5)	10
✓ Ch: Locomotion and Movement	Short Answer Questions Type- 2	(3 x 7)	21
✓ Ch: Neural control and Coordination	Case Study	(4 x 2)	8
✓ Ch: Chemical Coordination and Integration			
➤ Unit -II: Structural Organization in Plants and Animals	Long Answer Questions	(5 x 3)	15
✓ Ch: Morphology of Flowering Plants	Total		70
✓ Ch: Anatomy of Flowering Plants			
❖ PERIODIC TEST -2 (PT)			
➤ Unit -II	Blue Print	PT-2	Marks
✓	MCQs	(1 x7)	7
✓ Ch 7 Structural Organization in Animals	Assertion Reason type Questions	(1 x 2)	2
	Short Answer Questions Type 1	(2 x 4)	8
➤ Unit -III	Short Answer Questions		9

	Type 2	(3 x 3)	
✓ Ch: Cell -The Unit of Life	Case Study	(4 x 1)	4
✓ Ch: Cell Cycle and Cell Division	Long Questions	(5 x 2)	10
	Total		40
➤ Final Practical			
	Blue Print		Marks
✓ One major Experiment	Blue Print		Marks
✓ One Minor Experiment	One major Experiment		5
✓ Slide Preparation	One Minor Experiment		4
✓ Spotting	Slide Preparation		5
✓ Practical Record + VIVA	Spotting		7
✓ Project Record + VIVA	Practical Record		4
	VIVA		5
	Total		30
❖ Final Examination			
➤ Full Syllabus			
	Blue Print	Final Term	Marks
	Blue Print	Second Term	Marks
	MCQs	(1 x 12)	12
	Assertion Reason type Questions	(1 x 4)	4
	Short Answer Questions Type- 1	(2 x 5)	10
	Short Answer Questions Type- 2	(3 x 7)	21
	Case Study	(4 x 2)	8
	Long Answer Questions	(5 x 3)	15
	Total		70

Marks Distribution

Unit	Chapter Name	Marks
I	➤ UNIT- I ✓ Ch: The Living World ✓ Ch: Biological Classification ✓ Ch: Plant Kingdom ✓ Ch: Animal Kingdom	15
II	➤ UNIT -II ✓ Ch: Morphology of Flowering Plants ✓ Ch: Anatomy of Flowering Plants ✓ Ch: Structural Organization in Animals	10
III	➤ UNIT - III ✓ Ch: Cell -The Unit of Life ✓ Ch: Biomolecules ✓ Ch: Cell Cycle and Cell Division	15
IV	➤ UNIT - IV ✓ Ch: Photosynthesis in Higher Plants ✓ Ch : Respiration in Plants ✓ Ch: Plant Growth and Development	12

V	➤ UNIT - V ✓ Ch: Breathing and Exchange of gases ✓ Ch: Body Fluids and Circulation ✓ Ch: Excretory products and their Elimination ✓ Ch: Locomotion and Movement ✓ Ch: Neural control and Coordination ✓ Ch: Chemical Coordination and Integration	18
	Total	70

Month wise Syllabus

Month	Chapter's Name
April	UNIT - V HUMAN PHYSIOLOGY
	Ch: Breathing and Exchange of gases
May	UNIT -V HUMAN PHYSIOLOGY
	Ch: Body Fluids and Circulation
	Ch: Excretory products and their Elimination
June	_____Vacations_____
July	UNIT -V HUMAN PHYSIOLOGY
	Ch: Locomotion and Movement
	Ch: Neural control and Coordination(Half)
August	Ch: Neural control and Coordination(Full)
	Ch: Chemical Coordination and Integration
	UNIT -II
	Ch: Morphology of Flowering Plants
	Ch: Anatomy of Flowering Plants
September	First Term Examination
October	Ch: Structural Organization in Animals
	UNIT - III
	Ch: Cell -The Unit of Life
November	Ch: Cell Cycle and Cell Division
	UNIT - IV
	Ch: Photosynthesis in Higher Plants
	Ch: Respiration in Plants
December	Ch: Plant Growth and Development
	UNIT- I
	Ch: The Living World
	Ch: Biological Classification
January	Ch: Plant Kingdom
February	Ch: Animal Kingdom
March	Revision
	✓ Structure of flower
	✓ Pollinations and fertilisation of flower
	✓ Post fertilisation changes in flower
March	✓ Human male and female reproductive system
	Final Examination

Practicals:-

A: List of Experiments

1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation Simple and compound)
2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).
3. Study of osmosis by potato osmometer.
4. Study of plasmolysis in epidermal peels (e.g. Rhoecolily leaves or shiny scale leaves of onion bulb).
5. Study of distribution of stomata on the upper and lower surfaces of leaves.
6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.
7. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.
8. Separation of plant pigments through paper chromatography.
9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.
10. Test for presence of urea in urine.
11. Test for presence of sugar in urine.
12. Test for presence of albumin in urine.
13. Test for presence of bile salts in urine.

B. Study and Observe the following (spotting):

1. Parts of a compound microscope.
2. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.
3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.
4. Mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides.
5. Different types of inflorescence (cymose and racemose).
6. Human skeleton and different types of joints with the help of virtual images/models only.

BOOK REFERENCES

NCERT BOOK

PRADEEP'S BIOLOGY

MUSIC SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (PT)			
	Blue Print	First Term	Marks
✓ Definitions – Naad, Shruti, Swar, Saptak, Thaata			
✓ Teen Taal	Section A MCQ's	(1x8)	08
	Section B	(2x5)	10
❖ First Term Exam	Section C	(2x6)	12
✓ Definitions – Shruti, Swar, Saptak, Thaata, Jaati, Raag, Khayal			
✓ Taal – Teen Taal	Total		30
✓ Tansen			
✓ Practical: One Patriotic or Devotional Song Raag Bhairav			
SECOND Term Exam			Marks
	Blue Print	Second Term	
	Section A MCQ's	(1x8)	08
✓ Definitions - Alankar, Alaap, Taan, Gram, Kan, Meend, Vaadi- Samvadi- Vivadi-Anuvadi	Section B	(2x5)	10
✓ Time Theory of Ragas	Section C	(2x6)	12
✓ Bade Ghulam Ali Khan			
✓ Taal Roopak , Jhap	Total		30
✓ Raag Bhairav and Bageshri			
❖ Full Syllabus			
○ Blue print will be same as given in Second Term			
❖ PRACTICALS			
✓ Raag Bhairav and Bageshri			
✓ Rupak and Jhap Taal			

Month wise Syllabus

Month	Chapter's Name
April - May	<u>Definitions</u>
	Naad, Shruti, Swar, Saptak, Thaata
	Teen Taal
	Practical - (Patriotic or Devotional Song)

June	_____Vacations_____
July- August	<u>Definitions</u>
	Raag Jaati Swar Saptak Khayal <u>Vadi- Samvadi- Anuvadi- Vivadi</u>
	Teen Taal
	Practical - Raag Bhairav Teen Taal One Song (Patriotic or Devotional Song)
September- October	Definitions: Alnkar, Alap, Taan, Gram
	Time theory of ragas
	Character sketch-
	Practical – One Raag
November	Definitions: Kan, Meend,
	Taal- Rupal and Jhap
December	Charactersketch, Time Theory, Taanpura,
	Practical: One Raag and Song
	Revision + Second Term Exam
January	Revision
February	Revision + Final Practicals
March	Final Examination

PHYSICAL EDUCATION SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (UT)		
➤ Chapters	Blue Print UT-1	Marks
✓ Unit-1 Changing Trends and Career in Physical Education	MCQ (1 X 7)	7
	Very Short Question (2 x 3)	6
	Short Question (3 x 3)	9
	Case Study (4x 2)	8
	Long Questions (5 x 2)	10
	Total	40
❖ SEA -1		
	Blue Print SEA-1	Marks
➤ Practical Work	Physical Fitness Test	6
	Skill of any one recognised game of choice	7
	Yoga Practices	7
	VIVA Voce	5
	Record File	5
	Total	30
❖ First Term Exam		
➤ Chapters	Blue Print UT-1	Marks
✓ Unit 1. Changing Trends and Career in Physical Education.	MCQ (1x18)	18
✓ Unit 2. Olympism	Very Short Question (2 x 5)	10
✓ Unit 3. Yoga	Short Question (3 x 5)	15
✓ Unit 4. Physical Education and Sports for CWSN	Case Study (4x 3)	12
✓ Unit 5. Physical Fitness, Health and Wellness	Long Questions (5 x 3)	15
	Total	70
❖ PERIODIC TEST -2 (UT)		
➤ Chapters	Blue Print UT-2	Marks
✓ Unit 6. Test, Measurement and Evaluation	MCQ (1 X 7)	7
✓ Unit 7. Fundamentals of Anatomy and Physiology in Sports	Very Short Question (2 x 3)	6
	Short Question (3 x 3)	9
	Case Study (4x 2)	8
	Long Questions (5 x 2)	10
	Total	40

❖ SEA -2			
	Blue Print	SEA-2	Marks
➤ Practical Work	Physical Fitness Test		6
	Skill of any one recognised game of choice		7
	Yoga Practices		7
	VIVA Voce		5
	Record File		5
	Total		30
❖ Second Term Exam			
➤ Chapters	Blue Print	Second Term	Marks
✓ Ch8. Fundamentals of Kinesiology and Biomechanics in Sports (Full)	MCQ	(1 X 18)	18
✓ Ch9. Psychology and Sports	Very Short Question (2 x 5)		10
✓ Ch10. Training in Sports	Short Question	(3 x 5)	15
✓	Case Study	(4x 3)	12
✓	Long Questions	(5 x 3)	15
✓	Total		70
Full syllabus (First Term syllabus and UT-2) will be assessed in the Board Exam			

Month wise Syllabus

Month	Chapter Name
April	Ch1. Changing Trends and Career in Physical Education (Half).
May	Ch1. Changing Trends and Career in Physical Education (Full)
June	Summer Vacations
July	Ch2. Olympism Ch3. Yoga
August	Ch4. Physical Education and Sports for CWSN Ch5. Physical Fitness, Health and Wellness
September	1st Term Examination

October	Ch6. Test, Measurement and Evaluation Ch7. Fundamentals of Anatomy and Physiology in Sports Ch8. Fundamentals of Kinesiology and Biomechanics in Sports (Half).
November	Ch9. Psychology and Sports Ch10. Training in Sports
December, January, February	_____Revision_____
March	Final Board Examination

INFORMATION TECHNOLOGY SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (UT)			
➤ Part B:	Blue Print	UT-1	Marks
✓ Unit 1: Computer Organization	Objective type Questions (1x10)		10
	Short Question	(2 x 5)	10
	Short Question	(3 x 4)	12
	Long Questions	(4 x 2)	8
	Total		40
➤ Practical Work	Blue Print	Practical Exam	Marks
✓ Office Automation Tools	Practical Work		30
	Project Work/ Practical File		10
	Total		40
❖ First Term Exam			
➤ Part A:	Blue Print	First Term	Marks
✓ Unit 1: Communication Skills-III	Objective type Questions (1x30)		30
	Short Question	(2 x 6)	12
➤ Part B:	Short Question		(3 x 2) 6
✓ Unit -1 : Computer Organisation	Long Questions		(4 x 3) 12
✓ Unit-3: Office Automation Tools			
	Total		60
❖ PERIODIC TEST --2 (UT)			
➤ Part A:	Blue Print	UT-2	Marks
✓ Unit 2: Self- Management Skill-III	Objective type Questions (1x22)		22
✓ Unit 3: ICT Skills - III	Short Question	(2 x 4)	08
➤ Part B:	Short Question		(3 x 2) 06
✓ Unit 4: RDBMS	Long Questions		(4 x 1) 4
✓ Unit 2: Networking and Internet	Total		40
➤ Practical Work	Blue Print	Practical Exam	Marks
✓ My SQL Commands	Practical Work		30
✓ Java Programs	Project Work/ Practical File		10
	Total		40

❖ Second Term Exam			
✓ Part A:	Blue Print	Second Term	Marks
✓ Unit 1: Communication Skills-III	Objective type Questions (1x24)		24
✓ Unit 2: Self-Management Skills-III	Short Question	(2 x 7)	14
✓ Unit 3: ICT Skills-III	Long Questions	(4 x 3)	12
✓ Unit 4: Entrepreneurial Skills-III			
✓ Unit 5: Green Skills-III			
✓ Part B:	Total		50
✓ Unit -1: Communication Skills-III			
✓ Unit -2: Networking and Internet			
✓ Unit-3: Office Automation Tools			
✓ Unit-4: RDBMS			
✓ Unit-5: Fundamentals to Java Programming			

Marks Distribution

Part-A	MAX. MARKS
Unit 1 : Communication Skills-III	2
Unit 2 : Self-Management Skills-III	3
Unit 3 : ICT Skills-III	1
Unit 4 : Entrepreneurial Skills-III	3
Unit 5 : Green Skills-III	1
Total	10
Part-B	
Unit -1 : Computer Organization	5
Unit -2 : Networking And Internet	10
Unit-3 : Office Automation Tools	10
Unit-4: RDBMS	10
Unit-5: Fundamentals of Java	15
Total	50
Part-C	
Practical Work	30
Part-D	
Project Work	10
GRAND TOTAL	100

Month wise Syllabus

Month	Content
April	Part-B
	Unit-1 Computer Organization.
	1 Understand and appreciate fundamentals of Computer and its characteristics
	2 Understand the components of computer
	3 Understand Operating System

May	<u>Part-B</u>
	Unit-1 Computer Organization (contd..)
	4.Troubleshooting in computer system
	Unit 3: Office Automation Tools
July	1. Word processor
	<u>Part-B</u>
	Unit 3: Office Automation Tools(contd..)
	2. Spreadsheets
August	3. PowerPoint
	<u>Part-A</u>
	Unit 2 : Self-Management Skills-III
	Unit-3 : ICT Skills-III
	Unit-4: RDBMS
	1. Understand Relational Database Management System
2. Introduction to MYSQL	
September- First Term Examination	
October	<u>Part-B</u>
	Unit-4: RDBMS (contd....)
	3. DML Commands
	Unit 5: Fundamentals to Java Programming
	1. Understand Integrated Development Environment (NETBEANS)
	2. JAVA Programming
November	<u>Part-B</u>
	Unit 5: Fundamentals to Java Programming
	2. JAVA Programming (contd..)
December	<u>Part-B</u>
	Unit -2: Networking and Internet
	<u>Part-A</u>
	Unit 4: Entrepreneurial Skills-III
	Unit-5: Green Skills
January	Revision of Part B
February	Revision of Part A
March- Final Term Examination	

ARTIFICIAL INTELLIGENCE SYLLABUS (2023-2024): CLASS- XI

❖ PERIODIC TEST -1 (UT)		
➤ Part B:	Blue Print UT-1	Marks
✓ Unit 1: Introduction to AI	Objective type Questions (1 X 8)	8
	Short Question (2 x 8)	16
	Long Questions (4 x 4)	16
	Total	40
Blue Print Practical Exam Marks		
➤ Project Work: Advanced Python	Practical Work	40
	Project Work/ Field Visit/ Project/ Ideation + presentation	10
	Total	50
❖ First Term Exam		
➤ Part A:	Blue Print First Term	Marks
✓ Unit 1: Communication Skills-III		
	Objective type Questions (1 X 24)	24
➤ Part B:	Short Question (2 x 7)	14
✓ Unit 1: Introduction to AI	Long Questions (4 x 3)	12
✓ Unit 2: AI Applications and Methodologies		
	Total	50
❖ PERIODIC TEST --2 (UT)		
➤ Part A:	Blue Print UT-2	Marks
✓ Unit 2: Self- Management Skills-III	Objective type Questions (1 x 14)	14
✓ Unit 3: ICT Skills- III	Short Question (2 x 7)	14
➤ Part B:	Long Questions (4 x 3)	12
✓ Unit- 5: Introduction to story telling		
✓ Unit-9: Classification	Total	40
✓ Unit 4: AI Values (Ethical decision making)		
Blue Print Practical Exam Marks		
➤ Project Work: Advanced Python	Practical Work	40
	Project Work/ Field Visit/ Project/ Ideation + presentation	10
	Total	50

❖ Second Term Exam			
✓ Part A:	Blue Print	Second Term	Marks
✓ Unit 1: Communication Skills-III	Objective type Questions (1 x 24)		24
✓ Unit 2: Self-Management Skills-III	Short Question	(2 x 7)	14
✓ Unit 3: ICT Skills-III	Long Questions	(4 x 3)	12
✓ Unit 4: Entrepreneurial Skills-III			
✓ Unit 5: Green Skills-III			
✓ Part B:	Total		50
✓ Unit 1: Introduction to AI			
✓ Unit 2: AI Applications and Methodologies			
✓ Unit 4: AI Values (Ethical decision making)			
✓ Unit 5: Introduction to story telling			
✓ Unit 9: Classification & Clustering			

Marks Distribution

UNITS	MAX. MARKS
Part A	Employability Skills
Unit 1 : Communication Skills-III	2
Unit 2 : Self-Management Skills-III	2
Unit 3 : ICT Skills-III	2
Unit 4 : Entrepreneurial Skills-III	2
Unit 5 : Green Skills-III	2
Total	10
Part B	Subject Specific Skills
To be assessed in Theory Exams	
Unit 1: Introduction To AI	08
Unit 2: AI Applications & Methodologies	10
Unit 4: AI Values (Ethical Decision Making)	04
Unit 5: Introduction To Storytelling	08
Unit 8: Regression	10
To be assessed through Practical only	
Unit 3: Maths For AI	-
Unit 6: Critical & Creative Thinking	-
Unit 7: Data Analysis (Computational Thinking)	-
Unit 9: Classification & Clustering	-
Unit 10: AI Values (Bias Awareness)	-
Total	40
Part C	Practical Work
Practical Examination	40
Part D	
Project Work/ Field Visit/ Project/ Ideation + presentation	10
GRAND TOTAL	100

Month wise Syllabus

Month	Content
April	<u>Part-B</u> <u>Unit1: Introduction to AI</u> <ul style="list-style-type: none"> • What is AI?
May	<u>Unit1: Introduction to AI (contd..)</u> <ul style="list-style-type: none"> • History of AI • What is Machine Learning • What is data? • Terminology and Related Concepts
July	<u>Unit1: Introduction to AI (contd..)</u> <ul style="list-style-type: none"> • What machine learning can and cannot do • More examples of what machine learning can and cannot do <u>Unit 2: AI Applications and Methodologies</u> <ul style="list-style-type: none"> • Key Fields of Application in AI • Characteristics and types of AI • Cognitive Computing (Perception, Learning, Reasoning)
August	<u>Unit 2: AI Applications and Methodologies</u> <ul style="list-style-type: none"> • AI and Society • The Future with AI, and AI in Action • Non-technical explanation of deep learning <u>Part B</u> <u>Unit 4: AI Values (Ethical decision making)</u> <ul style="list-style-type: none"> • AI: Issues, Concerns and Ethical Considerations <u>Part A</u> Unit-1: Communication Skills- III
September- First Term Examination	
October	<u>Unit 5: Introduction to story telling</u> <ul style="list-style-type: none"> • Storytelling: communication across the ages • The Need for Storytelling • Story telling with data • Conflict and Resolution • Storytelling for audience • Insights from storytelling <u>Part A</u> Unit 1: Communication Skills-III
November	<u>Part B</u> <u>Unit 9: Classification& Clustering</u> <ul style="list-style-type: none"> • What is a classification problem? • Examples • Introduction to binary classification with logistic regression • True positives, true negatives, false positives and false negatives <u>Part A</u> Unit 2: Self-Management Skills-III Unit-3: ICT Skills-III
December	<u>Part B</u> <u>Unit 9: Classification& Clustering (contd..)</u> <ul style="list-style-type: none"> • What is a clustering problem? • Why is it unsupervised? <u>Part A</u> Unit 4: Entrepreneurial Skills-III Unit 5: Green Skills-III
January	Revision of Part B
February	Revision of Part A
March- Final Term Examination	