

O. P. JINDAL SCHOOL, SAVITRINAGAR, TAMNAR

Annual Syllabus Break-up for the session 2026 -2027

Subject: Biology Class: XI

Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
1	April	24		Chapter-1: The LivingWorld	To study specimens/slides/models- Bacteris,spirogyra,rhizopus .	1.Understand the concept of What is living? Biodiversity ,Need for classification ,three domains of life etc.	Worksheet on living world,MCQs
	June	13		Chapter-2:Biological Classification	Study and observe the parts of a compound microscope.	2. Understand the concept of Five kingdom classification; Salient features and classification of Monera etc.	Worksheet on biological classification ,MCQs

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3	July	26		<p>Chapter-3: Plant Kingdom</p> <p>Chapter-4: Animal Kingdom</p> <p>Chapter-8 Cell-The unit of life</p>	<p>To study and observe – liverwort,moss,fern,pine ,lichen</p> <p>To study the specimens/slides- amoeba,hydra,ascaris,leech ,earthworm ,prawn,snail,starfish,rohu, frog,lizard.</p> <p>To study plasmolysis</p>	<p>3.Understand the concept of Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiospermae etc.</p> <p>4.Understand the concept of Salient features and classification of animals etc</p> <p>8. Understand the concept of Cell theory and cell as the basic unit of life: Structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles – structure and function etc</p>	<p>Worksheet on plant kingdom ,MCQs</p> <p>Worksheet on Animal Kingdom, MCQs</p> <p>Worksheet on Cell, MCQs</p>

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3	August	22		<p>Chapter-5: Morphology of Flowering Plants</p> <p>Chapter-6: Anatomy of Flowering Plants</p> <p>Chapter7- Structural Organisation in Animals</p>	<p>Study and describe common flowering plants</p> <p>To study T.S of dicot, monocot roots and stems</p> <p>To study osmosis by potato osmometer</p>	<p>5. Understand the concept of Morphology and modifications: Morphology of different parts of flowering plants etc.</p> <p>6. Understand the concept of Anatomy and functions of different tissues and tissue systems etc</p> <p>7. Understand the concept of Animal tissues; Morphology, anatomy and functions of different systems etc.</p>	<p>Worksheet on Morphology of flowering plants, MCQs</p> <p>Worksheet on Anatomy of flowering plants, MCQs</p> <p>Worksheet on structural organisation, MCQs</p>

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4	September	10		Revision and Assessment			

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5	October	19		Chapter-9: Biomolecules Chapter-10: Cell Cycle and Cell Division	To demonstrate enzymatic activity To study mitosis in onion root tip cells	9. Understand the concept of Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes- types, properties, enzyme action etc. 10. Understand the concept of Cell cycle, mitosis, meiosis and their significance etc.	Worksheet on biomolecules, MCQs Worksheet on cell division, MCQs

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6	November	15		<p>Chapter-13: Photosynthesis in higher plants</p> <p>Chapter-14: Respiration in Plants</p>	<p>To study distribution of stomata on upper and lower surface of leaves.</p> <p>To study separation of plant pigment by paper chromatography</p>	<p>13. Understand the concept of Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea) etc.</p> <p>14. Understand the concept of Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic) etc.</p>	<p>Worksheet on photosynthesis in higher plants, MCQs</p> <p>Worksheet on respiration in plants, MCQs</p>

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7	December	17		<p>Chapter-15: Plant Development</p> <p>Chapter-17: Breathing and Exchange of Gases</p>	<p>To study the rate of transpiration in upper and lower surface of leaves.</p> <p>To study breathing rate</p>	<p>15. Seed germination; phases of plant growth and plant growth rate conditions of growth etc.</p> <p>17. Understand the concept of Respiratory system in humans; mechanism of breathing and its regulation in humans etc.</p> <p>18. Understand the</p>	<p>Worksheet on plant development, MCQs</p> <p>Worksheet on breathing and exchange of gases, MCQs</p>

				Chapter-18: Body Fluids and Circulation	To study about ECG	concept of Composition of blood, blood groups, coagulation of blood etc.	Worksheet on body circulation, MCQs
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8	January	23		Chapter-19: Excretory Products and Their Elimination Chapter-20: Locomotion and Movement Chapter-21: Neural Control and Coordination	To test the presence of urea,sugar,albumin To study human skeleton and different types of joints. To study types of nerves	19. Understand the concept of Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system etc. 20. Understand the concept of Types of movement - ciliary, flagellar, muscular; skeletal muscle- contractile proteins and muscle 21. Understand the concept of Neuron and nerves; Nervous system in humans -	Worksheet of excretory product and their elimination, MCQs Worksheet of locomotion and movement ,MCQs Worksheet of neural coordination ,MCQs

				Chapter-22: Chemical Coordination and Integration	To study hormones and feed back mechanism	<p>central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse etc.</p> <p>22. Understand the concept of Endocrine glands and hormones; human</p> <p>Endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads etc.</p>	Worksheet of chemical coordination ,MCQs
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9	February	06		Revision & Assessment			

SYLLABUS FOR EXAMINATION

SN	EXAMINATION	EXAMINATION'S MONTHS	MAX MARKS	Max Time	SYLLABUS FOR EXAMINATION
1	Periodic Test – 1	June	20	1 Hr	Chapter-1 Living World Chapter-2 Biological Classification
	Periodic Test-1	July			Chapter-3 Plant Kingdom Chapter-4 Animal Kingdom
2	Half Yearly Examination	September	70	3 Hrs	Chapter- 1,2,3,4,5,6,7,8
3	Periodic Test – 3	October	20	1 Hr	Chapter-9 Biomolecules Chapter- 10 Cell Division
	Periodic Test-3	December			Chapter-13 Photosynthesis in plants Chapter-14 Respiration in plants
4	Annual Examination	February	70	3 Hrs	Complete Syllabus