O. P. JINDAL SCHOOL, SAVITRINAGAR, TAMNAR

Annual Syllabus Break-up for the session 2023-2024

Subject: Biology Class: XI

SI.	Month	No. of Instructi onal days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
1	June	11	10	Chapter-1: The Living World Chapter-2:Biological Classification	To study specimens/slides/models-Bacteria,spirogyra,rhizopus . Study and observe the parts of a compound microscope.	1.Understand the concept of What is living? Biodiversity, Need for classification, three domains of life etc. 2. Understand the concept of Five kingdom classification; Salient features and classification of Monera etc.	Worksheet on living world,MCQs Worksheet on biological classification ,MCQs

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2	July	23	22	Chapter-3: Plant Kingdom Chapter-4: Animal Kingdom Chapter-8 Cell-The unit of life	To study and observe – liverwort,moss,fern,pine ,lichen To study the specimens/slides-amoeba,hydra,ascaris,leech ,earthworm ,prawn,snail,starfish,rohu, frog,lizard. To study plasmolysis	3.Understand the concept of Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiospermae etc. 4.Understand the concept of Salient features and classification of animals etc 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	Worksheet on plant kingdom ,MCQs Worksheet on Animal Kingdom, MCQs Worksheet on Cell, MCQs

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				Chapter-5: Morphology of Flowering Plants	Study and describe common flowering plants	5.Understand the concept of Morphology and modifications: Morphology of different parts of flowering plants etc.	Worksheet on Morphology of flowering plants,MCQs
3	August	23	20	Chapter-6: Anatomy of Flowering Plants	To study T.S of dicot, monocot roots and stems	6.Understand the concept of Anatomy and functions of different tissues and tissue systems etc	Worksheet on Anatomy of flowering plants,MCQs
				Chapter7Structural Organisation in Animals	To study osmosis by potato osmometer	7.Understand the concept of Animal tissues; Morphology, anatomy and functions of different systems etc.	Worksheet on structura organisation ,MCQs

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4	September	12		Revision and Assessment			

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5	October	20	18	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	13	12	Chapter-13: Photosynthesis in higher plants	To study distribution of stomata on upper and lower surface of leaves.	13.Understand the concept of Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea) etc. 14.Understand the	Worksheet on photosynthesis in higher plants,MCQs
				Chapter-14: Respiration in Plants	To study separation of plant pigment by paper chromatography	concept of Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic) etc.	Worksheet on respiration in plants,MCQs

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				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
7	December	19	18	Chapter-15: Plant Development Chapter-17: Breathing and Exchange of Gases	-To study the rate of transpiration in upper and lower surface of leaves. To study breathing rate	15.Seed germination; phases of plant growth and plant growth rate conditions of growth etc. 17. Understand the concept of Respiratory system in humans; mechanism ofbreathing and its regulation in humans etc. 18. Understand the	Worksheet on plant development, MCQs Worksheet on breathing and exchange of gases, MCQs

days

				Chapter-19: Excretory Products and Their Elimination	To test the presence of urea, sugar, albumin	19. Understand the concept of Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system etc.	Worksheet of excretory product and their elimination, MCQs
8	January	22	20	Chapter-20: Locomotion and Movement	To study human skeleton and different types of joints.	20. Understand the concept of Types of movement - ciliary, flagellar, muscular; skeletal muscle-contractile proteins and muscle	Worksheet of locomotion and movement ,MCQs
				Chapter-21:Neural Control and Coordination	To study types of nerves	21. Understand the concept of Neuron and nerves; Nervous system in humans -	Worksheet of neural coordination ,MCQs

			Chapter-22: Chemical Coordination and Integration	To study hormones and feed back mechanism	central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse etc. 22. Understand the concept of Endocrine glands and hormones; human Endocrine s ystem - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads etc.	Worksheet of chemical coordination ,MCQs
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9	February	15		Revision & Assessment			

SYLLABUS FOR EXAMINATION

SN	EXAMINATION	EXAMINATION'S MONTHS	MAX MARKS	Max Time	SYLLABUS FOR EXAMINATION
1	TEST – 1	July	20	1 Hr	Chapter-1 Living World Chapter-2 Biological Classification
2	Half Yearly Examination	September	70	3 Hrs	Chapter- 1,2,3,4,5,6,7,8
3	TEST – 2	November	20	1 Hr	Chapter- 9 Biomolecules Chapter- 10 Cell Division
4	Annual Examination	February	70	3 Hrs	Complete Syllabus