

**AIR FORCE SCHOOL BAMRAULI PRAYAGRAJ Syllabus  
split up (2024 – 25) Class XI Biology  
BOOK:- NCERT**

Month	No. & Name of chapter	Topic/subtopic	No. of periods	Activity
July	1. Living world 2. Biological classification 3. Plant kingdom	Five kingdom classification , details of protista, monera, fungi, plantae, animalia Algae, types of algae, fungi, types of fungi, pteridophytes, gymnosperm and angiosperm	21	Observation of permanent mounted slides and plant specimen
Aug	Animal kingdom Morphology of flowering plants Anatomy of flowering plants	Description of different phyla along with their examples Morphology and floral description of angiosperms Anatomy of root, stem and leaf,	20	Observation of animal specimen Floral description of Solanaceae Observation of T.S. of root, stem and leaf
Sep	Anatomy of flowering plants (contd.) Structural organisation in animals Cell: the unit of life	Secondary growth in dicot stem and root  Tissues in animals, organs etc.  Components of cell, structures of different cell organelles	15	Observation of T.S. of dicot root and stem Observation of slides of skeletal and smooth muscles
Oct	9. Biomolecules 10. Cell cycle and cell division	Carbohydrates, protein, fat, DNA, enzymes Cell cycle, mitosis, meiosis	14	Observation of permanent slides of stages of cell division
Nov	11. Photosynthesis in higher plants 12. Respiration in plants	Photosynthesis in higher plants, light reaction, dark reaction, factors affecting photosynthesis Respiration, its types, steps: glycolysis, krebs cycle, ETS, RQ	20	Aerobic respiration in germinating seed

Dec	13. Plant growth and development 14. Breathing and exchange of gases	Growth in plants, growth hormone Auxin, gibberellin, cytokinin, Absicic acid, ethylene Breathing, its mechanism, capacity of lungs : tidal volume, reserve volume, IRV, ERV etc.	19	Class test
Jan	15. Body fluid and circulation 16. Excretory products and their circulation	Blood, its composition, lymph, heart, its function, ECG Composition of urine, structure and function of nephron , disorders of kidney	14	Observation of report of ECG of any person. Lab test of urine for presence of urea, protein, glucose
Feb	17. Locomotion and movement 18. Neural control and coordination 19. Chemical coordination and integration	Structure and function of muscles, and bones, joints Structure and function of neuron, brain, reflex action, control and coordination Production and function of different hormones in human body, different endocrine glands	23	Observation of different bones and muscles through slides

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