SYLLABUS OF CLASS- XI(2025-26)

SUBJECT-BIOLOGY

Main Course Book: NCERT PUBLICATION

Reference Book:

	PT1 Syllabus	
S. No.	Name of Chapter	
1	The living world	
2	Biological classification	
3	Plant kingdom	
	Half yearly syllabus	
1	The living world	
2	Biological classification	
3	Plant kingdom	
4	Animal kingdom	
5	Morphology of flowering plants	
8	Cell	
	PT2 Syllabus	
6	Anatomy of flowering plants	
7	Structural organisation in animals	
9	Biomolecules	
	Model Test/Annual syllabus	Marks
1	The living world	
2	Biological classification	15
3	Plant kingdom	
4	Animal kingdom	
5	Morphology of flowering plants	10
6	Anatomy of flowering plants	
7	Structural organisation in animals	
8	Cell	
9	Biomolecule	15
10	cell cycle and cell division	
11	Photosynthesis in higher plants	
12	Respiration in plants	12
13	Plant growth and development	
14	Breathing and exchange of gases	
15	Body fluids and circulation	18
16	Excretory products and their elimination	
17	locomotion and movement	
18	Neural control and coordination	

19	Chemical coordination and integration	
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. Rhoeo/lily leaves or flashy 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's cells (grasshopper) from permanent slides. 5. Types of inflorescence (cymose and racemose). 6. Human skeleton and different types of joints with the help of virtual images/models only	