

SYLLABUS OF CLASS- XII(2025-26)

SUBJECT-BIOLOGY

Main Course Book: NCERT PUBLICATION

Reference Book:

	First Terminal syllabus	
S. No.	Name of Chapter	
1	Sexual Reproduction in Flowering Plants	
2	Human Reproduction	
3	Reproductive Health	
4	Principles of Inheritance	
5	Molecular basis of Inheritance.	
	Half yearly syllabus	
1	Sexual Reproduction in Flowering Plants	
2	Human Reproduction	
3	Reproductive Health	
4	Principles of Inheritance	
5	Molecular basis of Inheritance.	
6	Evolution	
7	Human Health and Diseases	
8	Microbes in Human welfare	
	Preboard &Annual syllabus	Marks
1	Sexual Reproduction in Flowering Plants	
2	Human Reproduction	16
3	Reproductive Health	
4	Principles of Inheritance	
5	Molecular basis of Inheritance.	20
6	Evolution	
7	Human Health and Diseases	12
8	Microbes in Human welfare	
9	Biotechnology:Principles and Processes	12
10	Biotechnology and it's Applications	
11	Organisms and Populations	
12	Ecosystem	10
13	Diversity and conservation	
	List of Experiments	
A	1. Prepare a temporary mount to observe pollen germination. 2. Study the plant population density by quadrat method.	

	<p>3. Study the plant population frequency by quadrat method.</p> <p>4. Prepare a temporary mount of onion root tip to study mitosis.</p> <p>5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, banana etc.</p>	
B	<p>Study and observe the following (Spotting):</p> <ol style="list-style-type: none"> 1. Flowers adapted to pollination by different agencies (wind, insects, birds). 2. Pollen germination on stigma through a permanent slide or scanning electron micrograph. 3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice). 4. Meiosis in onion bud cell or grasshopper testis through permanent slides. 5. T.S. of blastula through permanent slides (Mammalian). 6. Mendelian inheritance using seeds of different colour/sizes of any plant. 7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness. 8. Controlled pollination - emasculation, tagging and bagging. 9. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause. 10. Models specimens showing symbiotic association in lichens, root nodules of leguminous plants, and parasitic mode of nutrition shown by Cuscuta on host. 11. Flash cards / models showing examples of homologous and analogous organs. 	