



FORTNIGHTLY SYLLABUS PLANNING (2023-24)

CLASS XII

SUBJECT-BIOLOGY

New Session begins on 1st March 2023

S.No.	Duration	No. of Teaching Days	Theory	Practical/ Activity	Weightage in Board
1	1 st March – 15 th March	11	Ch. 1- Sexual Reproduction in plants	Expt – To Study pollen germination on a slide. Spot - Pollen germination on stigma through a permanent slide Spot - Flowers adapted to pollination by different agencies (wind, insect).	
2	16 th March-31 st March	12	Ch. 2 – Human Reproduction Ch. 3 – Reproductive Health	Spot – Exercise on controlled pollination - emasculation, tagging and bagging Spot - Identification of stages of gamete development i.e. T.S. testis , and T.S. ovary through permanent slides (from any mammal). Spot - T.S. of blastula through permanent slides	
3	1 st April-15 th April	7	Ch. 4 – Principles of inheritance	Spot - Study 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. Spot-Mendelian inheritance using seeds	
Unit Test: 17th April – 15th May'23					
4	16 th April- 30 th April	10	Ch. 5 – Molecular basis of inheritance	Expt - To prepare a temporary slide of mitosis from onion root tips	
5	1 st May- 15 th May	10	Ch. 5 – Molecular basis of inheritance(Contd.)		
6	16 th May – 31 st May	9	Ch-6 Evolution	Spot-Models/specimens of symbiotic association, Spot-flash cards showing examples of homologous and analogous organs.	
Summer Vacations:29th May – 30th June'23					
7	1 st July- 15 th July	10	Ch.9- Biotechnology: Principles		
Periodic Test-1: 17th July – 7th August'23					
8	16 th July-31 st July	11	Ch. 10 – Biotechnology and its application	Isolate DNA from available plant material.	
9	1 st Aug- 15 th Aug	10	Ch.7 – Human health and diseases	Spot- Disease causing microbes	
10	16 th Aug- 31 st Aug	11	Ch.8- Microbes in Human Welfare		
Syllabus Completion for Mid Term Examination: 31st Aug 2023					
Practicals for Mid Term Examination: 6th Sept – 13th Sept 23					
11	1 st Sept-15 th Sept	7	REVISION		
Mid Term Examination - 15th Sept- 25th Sept 23					
12	1 st Oct- 15 th Oct	9	Ch.11 – Organisms and population Ch.12- Ecosystem	Specimens of animals and plants adapted to land and water	
Autumn Break- 23rd Oct- 24th Oct 23					

13	16 th Oct-31 st Oct	10	Ch.13 – Biodiversity and conservation	Expt - . Study of plant population density and population frequency by quadrat method	
Syllabus Completion for Board Exams – 31 Oct'23					
14	1 st Nov -15 th Nov	7	REVISION		
Diwali Break : 13th Nov - 15th Nov'23					
Pre Board 1 Examination: 16th Nov – 22nd Nov 23					
15	16 th Nov-30 th Nov	3	REVISION		
Pre Board Practicals: 4th Dec – 8th Dec 23					
16	1 st Dec- 15 th Dec	10	REVISION		
Pre Board 2 Examination: 18th Dec – 22nd Dec 23					
17	16 th Dec-31 st Dec	4	REVISION		
Winter Break- 1st Jan - 12th Jan'24					

SYLLABUS FOR ASSESSMENT

Exam	Test Date	Syllabus
UNIT TEST	15.05.23	Unit VI-Reproduction
PERIODIC TEST 1	17.07.23	Unit VI -Reproduction Unit VII-Genetics and Evolution
MID TERM EXAMINATION	22.09.23	Unit VI -Reproduction Unit VII-Genetics and Evolution Unit IX-Biotechnology
PRE BOARD 1 EXAMINATION	21.11.23	Unit VI -Reproduction Unit VII-Genetics and Evolution Unit VIII-Biology in Human Welfare Unit IX-Biotechnology Unit X-Ecology
PRE BOARD 2 EXAMINATION	19.12.23	Unit VI -Reproduction Unit VII-Genetics and Evolution Unit VIII-Biology in Human Welfare Unit IX-Biotechnology Unit X-Ecology