

DELHI PUBLIC SCHOOL, JAMMU
SYLLABUS BIFURCATION
SESSION (2024-2025)

CLASS XII

SUBJECT: BIOLOGY (044)

The Science which deals with the study of structure, organization, life processes, interactions, origin and evolution of living organism is biology. Biology is both fascinating and fun to study at the school level especially when connected to everyday life.

OBJECTIVE OF THE THEORY:

1. The students will be able to read, understand and critically interpret the biological literature.
2. The subject of biology piques intellectual curiosity, increases awareness of the fragile ecosystem.
3. The value of teaching biology should focus on the importance of appreciating the natural world and protecting planet earth.

PRACTICAL AIM: Student should be able to test theories developed about biotic and abiotic components by utilizing the scientific method and then to apply the new information in a beneficial way.

OBJECTIVE OF THE PROJECT

Gaining first hand experience of materials, organisms and processes that may increase their understanding of science and help the retention of knowledge.

Developing inquiry skills, such as control of variables, analysis and recording of data and looking for patterns.

S.NO.	MONTH	NAME OF THE LESSON
1	APRIL	Chapter 1: Sexual Reproduction in Flowering Plants Chapter 2: Human Reproduction <ul style="list-style-type: none">• Foundation sheet-For Revision on “Why do organisms reproduce?”
2	MAY	Chapter 3: Reproductive Health Chapter 4: Principles of Inheritance and Variation <ul style="list-style-type: none">• Sample Paper and Revision Sheet
3	JUNE	Chapter 4: Principles of Inheritance and Variation(Contd.) <ul style="list-style-type: none">• Discussion and allotment of Investigatory Project allotted by CBSE
4	JULY	Chapter 5: Molecular Basis of Inheritance; <ul style="list-style-type: none">• Activity-Database (NCBI) surfing for annotation of Human Genome• Assignment-1
5	AUGUST	Chapter 6: Evolution Chapter 7: Human Health and Diseases <ul style="list-style-type: none">• Activity-Using the textual information available prepare a PPT on list of immunity boosters.• Assignment-2
6	SEPTEMBER	Chapter 8: Microbes in Human welfare

		<ul style="list-style-type: none"> • Sample Paper and revision Sheet
7	OCTOBER	Revision of Half Yearly Syllabus <ul style="list-style-type: none"> • Activity-Kahoot Quiz
8	NOVEMBER	Chapter 9: Biotechnology-Principles and Processes Chapter 10: Biotechnology and its applications <ul style="list-style-type: none"> • Activity- PPT on the topic: Construction of first rDNA molecule. • Assignment-3
9	DECEMBER	Chapter 11: Organisms and Population; Chapter 12: Ecosystem Chapter 13: Biodiversity and its conservation <ul style="list-style-type: none"> • Sample Paper
10	JANUARY	Revision <ul style="list-style-type: none"> • CBSE Sample Paper
11	FEBRUARY	Project checking and Practical Revision
12	MARCH	Revision of the Syllabus

EXAM SCHEDULE

Project work will be based on the syllabus prescribed by CBSE

SYLLABUS OF CYCLE TEST I

- CHAPTER 1. Sexual Reproduction in Flowering Plants
- CHAPTER 2. Human Reproduction
- CHAPTER 3. Reproductive Health

SYLLABUS OF HALF YEARLY EXAMINATION

- CHAPTER 1. Reproduction in Organisms
- CHAPTER 2. Sexual Reproduction in Flowering Plants
- CHAPTER 3. Human Reproduction
- CHAPTER 4. Reproductive Health
- CHAPTER 5. Principles of inheritance and variation
- CHAPTER 6. Molecular Basis of Inheritance
- CHAPTER 7. Evolution

PRE-BOARD-I

- CHAPTER 1. Sexual Reproduction in Flowering Plants
- CHAPTER 2. Human Reproduction
- CHAPTER 3. Reproductive Health
- CHAPTER 4. Principles of inheritance and variation
- CHAPTER 5. Molecular Basis of Inheritance
- CHAPTER 6. Evolution
- CHAPTER 7. Human Health and Diseases
- CHAPTER 8. Microbes in Human Welfare
- CHAPTER 9. Biotechnology-Principles and Processes
- CHAPTER 10. Biotechnology and its applications

PRE-BOARD-II

- CHAPTER 1. Sexual Reproduction in Flowering Plants
- CHAPTER 2. Human Reproduction
- CHAPTER 3. Reproductive Health
- CHAPTER 4. Principles of inheritance and variation
- CHAPTER 5. Molecular Basis of Inheritance
- CHAPTER 6. Evolution
- CHAPTER 7. Human Health and Diseases
- CHAPTER 8. Microbes in Human Welfare
- CHAPTER 9. Biotechnology-Principles and Processes
- CHAPTER 10. Biotechnology and its applications
- CHAPTER 11: Organism and Population
- CHAPTER 12: Ecosystem
- CHAPTER 13: Biodiversity and its Conservation.

Subject Coordinator
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