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CLASS 12

Biology

Chapterwise PYQs

13 sections | 46 questions | 2022, 2023, 2024, 2025, 2026

CBSE board examination questions

Selected and rewritten questions are grouped under the current chapters or course topics. Each question shows its examination year. A chapter appears only when a verified question is available.

Choose a chapter or topic

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CHAPTER 1

Sexual Reproduction in Flowering Plants

Biology

1. 2026
   Compare pollen viability using two plant examples and explain pollen-bank storage.

2. 2026
   Draw an angiosperm ovule and label six components.

3. 2025
   Explain double fertilisation and the eventual fate of both products.

4. 2023
   Identify the relatively uncommon water-pollination mechanism and give two aquatic plants that instead use other pollinating agents.

5. 2023
   Explain how triple fusion and double fertilisation occur in flowering plants.

CHAPTER 2

Human Reproduction

Biology

6. 2026
   Trace human development from fertilisation to implantation and identify the fertilisation site.

7. 2025
   Describe placenta formation after the blastocyst implants in the uterus.

8. 2023
   Explain hormonal control of ovulation and the role of the ovarian structure formed afterwards.

CHAPTER 3

Reproductive Health

Biology

9. 2024

Outline IVF-related assisted reproduction and explain the expression 'test-tube baby'.

10. 2024

Explain how oral contraceptive pills act and the schedule required for effective use.

CHAPTER 4

Principles of Inheritance and Variation

Biology

11. 2026

Compare heterogamety in XO-male/XX-female and ZZ-male/ZW-female systems, giving one organism for each.

12. 2026

Explain pedigree analysis and two ways it assists human genetics.

13. 2025

Give two reasons for Mendel's experimental success and state independent assortment.

14. 2024

A colour-blind father has a colour-blind son and daughter with a normally sighted mother. Use a cross to explain inheritance.

CHAPTER 5

Molecular Basis of Inheritance

Biology

15. 2024

Identify the DNA used in fingerprinting, describe two characteristics and give two applications.

16. 2023

Name the main E. coli DNA-replication enzyme, give two features and explain consequences of replication mistakes.

CHAPTER 6

Evolution

Biology

17. 2026

Derive $p^2 + 2pq + q^2 = 1$ and identify two causes of genetic disequilibrium.

CHAPTER 7

Human Health and Disease

Biology

18. 2026

Explain humoral immunity and name two antibody classes involved.

19. 2025

Explain how early degeneration of the thymus affects immunity.

20. 2023

Give three similarities between HIV infection and hepatitis B infection.

21. 2022

Explain the recurring chills and fever experienced during malaria.

22. 2022

Explain the immune-system roles of the thymus and bone marrow.

23. 2022

Explain HIV-associated susceptibility to other infections and name a commonly used diagnostic test.

CHAPTER 8

Microbes in Human Welfare

Biology

24. 2026

Explain biofertilisers and how different microbial groups improve soil fertility.

25. 2025

Explain biological treatment of primary sewage effluent in aeration tanks.

26. 2022

Explain Fleming's observation of bacterial growth inhibition and why the finding mattered.

27. 2022

Describe secondary sewage-treatment events after BOD has fallen sufficiently for effluent discharge.

CHAPTER 9

Biotechnology: Principles and Processes

Biology

28. 2026

For 5′-GAATTC-3′ paired with 3′-CTTAAG-5′, name the sequence type and recognising enzyme; explain cleavage.

29. 2025

Identify the enzyme that joins restriction-cut plasmid DNA to a foreign fragment.

30. 2025

Describe amplification of a target DNA sequence using PCR.

31. 2024

Decode the enzyme name EcoRI according to the naming convention.

32. 2024

Explain how β-galactosidase is used in insertional-inactivation screening.

33. 2023

Outline extraction of DNA from a plant cell for recombinant-DNA work.

34. 2022

Give a restriction enzyme, its recognition sequence and the positions where it cuts that sequence.

35. 2022

Describe the construction of the first artificial recombinant DNA molecule.

CHAPTER 10

Biotechnology and its Applications

Biology

36. 2024

Define a transgenic animal and explain the significance of the first transgenic cow.

37. 2023

Explain ADA deficiency, its gene-therapy treatment and why engineered lymphocytes may need repeated administration.

CHAPTER 11

Organisms and Populations

Biology

38. 2025

Explain why the sea-anemone–clownfish association is classified as commensalism.

39. 2025

Explain population growth under limited resources, give its equation and sketch its curve.

40. 2024

Explain species-specific bee pollination in Ophrys and what the example shows about co-evolution.

41. 2023

Identify two processes that increase population density and two that decrease it.

42. 2023

Give examples of plant structural defence, animal chemical defence and brood parasitism.

43. 2022

Name the age categories in an age pyramid and describe a declining population's profile.

44. 2022

Explain how the two partners in a lichen benefit from their association.

CHAPTER 12

Ecosystem

Biology

45. 2026

State two limitations of ecological pyramids.

CHAPTER 13

Biodiversity and Conservation

Biology

46. 2025

Explain why Lantana invasion threatened Mudumalai's ecosystem and how removal aided recovery.

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