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CLASS 10

Science

Chapterwise PYQs

13 sections | 48 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

Chemical Reactions and Equations

Science

1. 2023

   Describe sunlight's effect on silver chloride and classify the reaction.

CHAPTER 2

Acids, Bases and Salts

Science

2. 2026

   Explain why dry hydrogen chloride does not change dry blue litmus.

3. 2025

   Write a balanced equation for electrolysis of brine and identify the products.

4. 2024

   Name $CaSO_4 \cdot ½H_2O$, explain its preparation, and write its reaction with water.

5. 2023

   Copper oxide reacts with dilute hydrochloric acid. Identify the coloured product and give the balanced reaction.

CHAPTER 3

Metals and Non-metals

Science

6. 2026

   Explain amphoteric oxides using two examples.

7. 2025

   Explain why carbon cannot extract highly reactive metals from their oxides.

8. 2023

   Use electron transfer to represent magnesium chloride formation.

CHAPTER 4

Carbon and its Compounds

Science

9. 2026
Explain soap's poor performance in hard water.

10. 2024
Name and sketch the structures formed when soap molecules assemble in water.

11. 2023
Draw both structural isomers of butane.

12. 2022
Draw the two structural arrangements for a saturated four-carbon hydrocarbon. State what this relationship is called.

CHAPTER 5

Life Processes

Science

13. 2025
Besides preventing blood loss, why must a vessel leak be sealed? Explain the contribution of platelets.

14. 2024
Explain the upward movement of water from soil to a plant's leaves.

15. 2023
Give the alternative name for tissue fluid and describe two functions.

16. 2023
Explain double circulation and the value of separating oxygenated and deoxygenated blood in birds and mammals.

CHAPTER 6

Control and Coordination

Science

17. 2026

Give two limitations of electrical impulses as a means of animal coordination.

18. 2025

Contrast a touch-me-not leaf's movement with the response of pea tendrils.

19. 2024

Trace the reflex pathway when a person touches something hot. Explain its protective value.

20. 2023

Identify the hormone behind a shoot bending towards light, and explain its action.

CHAPTER 7

How do Organisms Reproduce?

Science

21. 2025

State the reproductive roles of the ovary, oviduct and uterus.

22. 2024

Illustrate Hydra budding and identify the cells involved.

23. 2023

Explain vegetative propagation and give two benefits of using it.

24. 2022

Compare regeneration in Planaria with reproduction in Spirogyra. Give another organism that regenerates.

25. 2022

Describe what follows when a released human ovum remains unfertilised.

CHAPTER 8

Heredity

Science

26. 2026

Show the F_1 and F_2 outcomes of TT × tt in pea plants, stating the crosses involved.

27. 2025

Explain how sexual reproduction maintains a species' DNA content across generations.

28. 2024

Explain how offspring receive equal genetic contributions from both parents.

29. 2023

Why does sexual reproduction produce a child who is not an exact parental copy?

30. 2022

Explain variation and identify two causes of variation within a population.

CHAPTER 9

Light – Reflection and Refraction

Science

31. 2026

Give two differences between images produced by a plane mirror and a convex mirror.

32. 2025

Locate the image of an object 60 cm from a concave lens whose focal length is 30 cm.

CHAPTER 10

The Human Eye and the Colourful World

Science

33. 2026

Explain the Tyndall effect through one example.

34. 2024

Explain accommodation of the eye and identify the structure that changes lens curvature.

35. 2023

Explain why the sky appears blue from Earth but dark from space.

CHAPTER 11

Electricity

Science

36. 2026

Choose a 5 A or 10 A fuse for a 2000 W, 220 V heater. Support the choice with calculation.

37. 2025

A wire of resistance R is divided into three equal pieces, then joined in parallel. Find the equivalent resistance.

38. 2024

Calculate the resistance of a 1000 m copper wire of cross-section 2 mm^2; resistivity is 1.6×10^{-8} Ω m.

39. 2023

Explain why an ammeter must offer very little resistance.

40. 2022

A 4 kW, 220 V heater runs for two hours. Calculate current, energy used and cost at ₹4.50 per kWh.

CHAPTER 12

Magnetic Effects of Electric Current

Science

41. 2026

Describe the directions of magnetic field lines inside and outside a current-carrying solenoid.

42. 2025

Explain how earthing helps protect users of electrical appliances.

43. 2022

Describe a solenoid and sketch the magnetic field produced when it carries steady current.

44. 2022

Explain how field lines indicate magnetic-field direction and why two such lines cannot intersect.

CHAPTER 13

Our Environment

Science

45. 2026

Explain why a food chain usually has only a small number of trophic levels.

46. 2024

Compare biodegradable and persistent wastes; describe two harms caused by poorly managed persistent waste.

47. 2022

Explain ozone formation high in the atmosphere and its ecological importance.

48. 2022

Explain human vulnerability to biomagnification and one consequence of losing decomposers.

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