

CBSE Classes IX–X — Science Practicals

PRACTICE PAPER

Exam: CBSE Classes IX–X Science (practical-based questions) **Time:** 45 minutes **Max. marks:** 30 **Questions:** 25

NAME _____

ROLL NO. / DATE _____

Instructions

1. Section A: 20 practical-skill MCQs × 1 mark. Section B: 5 short questions × 2 marks.
2. Based on the NCERT / CBSE list of experiments. Always follow lab safety rules and your teacher's instructions.

SECTION A — PRACTICAL-SKILL MCQS

1. To find the pH of a sample, the best choice is
(A) blue litmus (B) universal indicator / pH paper
(C) phenolphthalein (D) red litmus
2. Dilute HCl added to zinc granules produces
(A) oxygen (B) hydrogen
(C) carbon dioxide (D) chlorine
3. The gas from the above reaction burns with a
(A) pop sound (B) green flame
(C) smell of rotten eggs (D) white precipitate
4. Sodium carbonate + dilute HCl gives a gas that turns lime water
(A) blue (B) milky
(C) pink (D) colourless
5. Iron nails kept in copper sulphate solution: the solution turns
(A) blue to green (B) green to blue
(C) colourless to blue (D) blue to red
6. Phenolphthalein in a basic solution turns
(A) colourless (B) pink
(C) yellow (D) blue
7. To observe stomata, the best material is
(A) the upper leaf surface (B) a peel of the lower leaf surface
(C) a root tip (D) a petal
8. The stain commonly used for an onion peel slide is
(A) iodine (B) safranin
(C) methylene blue (D) phenolphthalein

9. In the starch test on a leaf, the leaf is boiled in alcohol to
(A) kill germs (B) remove chlorophyll
(C) add starch (D) soften the cuticle
10. Germinating seeds kept in a flask with KOH: KOH absorbs
(A) oxygen (B) water
(C) carbon dioxide (D) nitrogen
11. Binary fission in Amoeba is best seen on a
(A) prepared slide (B) live leaf
(C) pollen grain (D) onion peel
12. In Ohm's law experiment, the ammeter is connected
(A) in series (B) in parallel
(C) across the battery only (D) anywhere
13. The voltmeter is connected _____ the resistor.
(A) in series with (B) in parallel across
(C) away from (D) before
14. The V-I graph of an ohmic resistor is a
(A) parabola (B) straight line through the origin
(C) circle (D) horizontal line
15. To find the focal length of a convex lens quickly, focus
(A) a distant object on a screen (B) a nearby candle on the lens
(C) the Sun on a mirror (D) a bulb in a dark room
16. A concave mirror forms a real image of a distant object at
(A) its centre of curvature (B) its focus
(C) infinity (D) the pole
17. Light passing through a glass slab emerges
(A) parallel to the incident ray but shifted
(B) perpendicular to the slab
(C) along the same line always
(D) reflected back
18. The density of a solid is measured using
(A) a spring balance and measuring cylinder
(B) a thermometer
(C) a stop-watch
(D) a compass
19. The least count of a measuring cylinder marked every 2 mL is
(A) 1 mL (B) 2 mL
(C) 0.5 mL (D) 10 mL
20. The boiling point of pure water at sea level is
(A) 90 °C (B) 100 °C
(C) 110 °C (D) 0 °C

SECTION B — SHORT ANSWERS (2 MARKS EACH)

21. Write two precautions for the experiment to study the relation between V and I (Ohm's law). [2 marks]
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22. Why is a leaf boiled in alcohol on a water bath and not directly on a flame? [2 marks]
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23. Write the balanced equation for the reaction of zinc with dilute sulphuric acid and name the gas. [2 marks]
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24. An object at 30 cm from a convex lens of focal length 15 cm. Where is the image formed? [2 marks]
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25. Name two features you can see in a temporary mount of an onion peel cell. [2 marks]
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