

Punjab Board Class 10 Science 2026 Question Paper

Time Allowed :3 Hours

Maximum Marks :70

Total questions :30

General Instructions

Read the following instructions very carefully and strictly follow them:

1. Note : You must write the subject code/paper code 05/C in the box provided on the title page of your answer book.
2. Make sure that answer book contains 24 pages (including title page) and are properly serialized as soon as you receive it.
3. Question/s attempted after leaving blank pages in the answer book would not be evaluated.
4. No extra sheet will be given. Write suitable answer and do not strike the written answer.
5. Answer should be brief and to the point. Draw labelled diagram where required.

1(i). What is focal length of a spherical mirror w.r.t. its radius of curvature ?

- (A) Half
- (B) Equal
- (C) One Third
- (D) One fourth

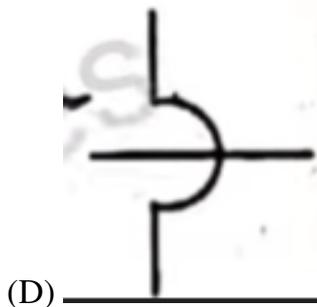
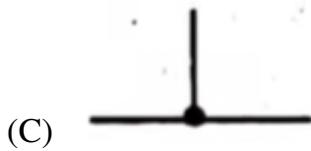
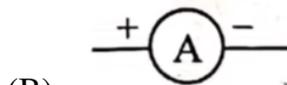
1(ii). The human eye can focus on objects at different distances by adjusting the focal length of eye lens. This is due to :

- (A) Presbyopia
- (B) Accommodation
- (C) Near-sightedness
- (D) Far-sightedness

1(iii). The least distance of distinct vision for a young adult with normal vision about :

- (A) 25 m
 - (B) 2.5 cm
 - (C) 25 cm
 - (D) 2.5 m
-

1(iv). Which of the following symbols show the correct component representing "Wires crossing without joining" ?



1(v). Choose the correct non-biodegradable material among the following :

- (A) Cake
 - (B) Flower
 - (C) Wood
 - (D) Plastic
-

1(vi). Which of the following is decomposer ?

- (A) Vulture
 - (B) Fungus
 - (C) Amoeba
 - (D) Algae
-

1(vii). You will observe brown fumes when lead nitrate is heated in boiling tube ?

Brown fumes are due to :

- (A) PbO
 - (B) NO_2
 - (C) $Pb(NO_3)_2$
 - (D) HNO_3
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1(viii). Which one of the following types of medicine is used for treating in digestion ?

- (A) Antibiotic
 - (B) Analgesic
 - (C) Antacid
 - (D) Antiseptic
-

1(ix). Choose the correct chemical formula of Gypsum :

- (A) $CaSO_4 \cdot 2H_2O$
 - (B) $CaSO_4 \cdot \frac{1}{2}H_2O$
 - (C) $CaSO_4$
 - (D) CaO
-

1(x). Which among the following is least reactive metal ?

- (A) Al
 - (B) Fe
 - (C) Zn
 - (D) Mg
-

1(xi). While cooking, if the bottom of the vessel is getting blackened on the outside, what could be the reason for that ?

- (A) The food is not cooked properly.
 - (B) The fuel is not burning completely.
 - (C) The fuel is wet.
 - (D) The fuel is burning completely.
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1(xii). Choose the correct blood cells which helps to clot the blood at the time of injury :

- (A) RBC
 - (B) WBC
 - (C) Lymph
 - (D) Platelets
-

1(xiii). The kidneys in human beings are a part of the system for :

- (A) Nutrition
 - (B) Respiration
 - (C) Excretion
 - (D) Transportation
-

1(xiv). Which is the main thinking part of the brain ?

- (A) Fore-brain
 - (B) Hind brain
 - (C) Mid-brain
 - (D) Medulla
-

1(xv). Name the mode of reproduction which allow new generations to be created from a single individual :

- (A) Sexual Reproduction
- (B) Unisexual
- (C) Bisexual

(D) Asexual reproduction

1(xvi). The image formed by the concave mirror is observed to be virtual, erect and larger than the object. Where should be the position of an object ?

- (A) Between the principal focus and the centre of curvature
 - (B) At the centre of curvature
 - (C) Beyond the centre of curvature
 - (D) Between the pole of the mirror and its principal focus
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2. Explain the formation of scum when hard water is treated with soap.

3. Aluminium is a highly reactive metal, yet it is used to make utensils for cooking ? Give reason.

4. Why Plaster of Paris should be stored in a moisture-proof container ?

5. Do basic solutions also have $H^+(aq)$ ions ? If yes, then why are these basic ?

6. What do you mean by Exothermic and Endothermic reaction ? Explain example.

7. What happens when Magnesium ribbon is burnt ? Write its chemical equation also.

8. Define ecosystem. What is the role of decomposers in the ecosystem ?

9. When does an electric short circuit occur ?

10. Why are copper and aluminium wires usually employed for electricity transmission ?

11. How much current will an electric bulb draw from a 220 V source, if the resistance of the bulb filament is 1200 Ω ?

12. Why does the sky appear dark instead of blue to an astronaut ?

13. Draw diagram of human eye. Label lens, Ciliary muscles, Retina and Optic nerve.

14. Explain Magnification of lens.

15. How does an embryo, get nourishment inside the mother's body ?

16. What is the need for a system of control and coordination in an organism ?

17. What are plant hormones ? Give two examples.

18. What are the differences between the transport of materials in Xylem and Phloem ?

19. Find the power of a concave lens of focal length 4 m.

20. When a 12 V battery is connected across an unknown resistor, there is a current of 2.5 mA in the circuit. Find the value of resistance of that resistor.

21. What is homologous series ? Explain with an example.

22. Define Oxidation, Reduction and Redox reactions.

23. Define saturated and unsaturated carbon compounds with examples.

24. Draw label diagram of human respiratory system.

25. How does our body respond when adrenalin is secreted into the blood ?

26. How do Mendel's experiments show that traits are inherited independently ?

27. Write uses of convex mirror and concave mirror.

28. Explain Ohm's Law with the help of Electric Circuit.

OR

28(a). How can three resistors of resistances 2Ω , 3Ω and 6Ω be connected to give a total resistance of 4Ω ?

28(b). How can three resistors of resistances 2Ω , 3Ω and 6Ω be connected to give a total resistance of 1Ω ?

29(a). Why lemon or tamarind is used for cleaning tarnished copper vessels ?

29(b). Why copper is used to make hot water tanks and not steel ?

OR

29(a). Differentiate between non-metal and metal on the basis of their chemical properties.

29(b). What are amphoteric oxides ? Give two examples.

30. Draw labelled diagram of human-female reproductive system.

OR

30. With the help of diagram explain asexual reproduction in Amoeba and Hydra.
