

CBSE Class 10 Science
Practice Paper-01

General Instructions:

- i. The question paper comprises two sections, A and B. You are to attempt both the sections.
 - ii. All questions are compulsory.
 - iii. All questions of Section A and B are to be attempted separately.
 - iv. There is an internal choice in two questions of three marks each and one question of five marks.
 - v. Question numbers 1 and 2 in Section-A are one mark question. They are to be answered in one word or in one sentence.
 - vi. Question numbers 3 to 5 in Section- A are two marks questions. These are to be answered in 30 words each.
 - vii. Question numbers 6 to 15 in Section-A are three marks questions. These are to be answered in about 50 words each.
 - viii. Question numbers 16 to 21 in Section-A are 5 marks questions. These are to be answered in 70 words each.
 - ix. Question numbers 22 to 27 in Section- B are based on practical skills. Each question is a two marks question. These are to be answered in brief.
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Section A

1. Write the full form of AIDS.
2. Write the formula of functional group of be ketone.
3. Give any two ways in which biodegradable substances would affect the environment.
4. Why are some patients of diabetes treated by giving infections of insulin?
5. What is sustainable management? Write the 3R's to save environment.
6. Write the balanced equation for the following chemical reactions:
 - a. Hydrogen + chlorine → Hydrogen chloride
 - b. Barium Chloride + Aluminium sulphate → Baricum sulphate + Aluminium chloride
 - c. Sodium + water → Sodium hydroxide + Hydrogen.
7. What is neutralization reaction? Give two examples.

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8. Describe the double circulation in human beings. Why is it necessary?
9. What is presbyopia? Write two causes of this defect. Name the type of lens which can be used to correct presbyopia.
10. Explain Ohm's law. Draw the electric circuit for studying Ohm's law.

OR

Write the factors on which resistance of a conductor depends.

11. Two circular coils A and B are placed closed to each other. If the current in Coil A is changed, will some current be induced in the coil B? Give reasons.
12. Sahil taunts his wife for having only daughters and no son. As a student of biology, Sahil's brother Deepak Convinced him that his wife has no role in giving birth to girls only. Now answer the following:
 - a. How did Deepak explain the process of sex determination of his brother?
 - b. Mention the values shown by Deepak.
13. What do you mean by metallic character of an element? How does it vary as we go down a group? Give reason for this variation.

OR

Write down three major difference between Mendeliev's periodic table and Modern periodic table.

14. What are renewable and non-renewable sources of energy? What are the qualities of an ideal source of energy?
15. What are amphoteric oxides? Give two examples of amphoteric oxides.
16.
 - a. Draw the ray diagram for a concave mirror, when the object is placed between Focus and centre of curvature.
 - b. A concave lens has focal length of 15 cm. At what distance should the object from the lens be placed so that it forms an image at 10 cm from the lens? Also, find the magnification produced by the lens.
17.
 - a. What is an homologous series?
 - b. Explain the cleansing action of soap with the help of diagram.
18. Draw a labelled diagram of female reproductive system and write the function of its different parts.
19.
 - a. State Fleming's left hand rule.
 - b. Name two safety measures commonly used in electric circuits. How can we avoid the overloading of electric circuits?

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20. a. Explain the terms:
- i. Corrosion
 - ii. Rancidity
- b. A Shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element X and the black coloured compound formed.
21. What are plant hormones? Name different plant hormones along with their functions.

Section - B

22. A student is given four samples A, B, C and D to find their pH. He observed that the colour of pH paper become light red (A), dark red(B), Orange(C) and dark blue(D). Arrange the samples with increasing pH value.
23. Show diagrammatically binary fission in Amoeba.
24. Show diagrammatically path of a light ray passing through a prism.
25. Differentiate between reflection and refraction of light.
26. How will you determine the equivalent resistance of two resistors when connected in series?
27. Write four steps to show that CO_2 is given out during respiration.

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