

## UP Board Class 10 Science Question Paper (Memory Based)

Time Allowed :3 Hours

Maximum Marks :70

Total questions :37

### General Instructions

**Read the following instructions very carefully and strictly follow them:**

1. Answers to this Paper must be written on the paper provided separately.
2. You will not be allowed to write during the first 15 minutes
3. This time is to be spent in reading the question paper.
4. The time given at the head of this Paper is the time allowed for writing the answers,
5. The paper has four Sections.
6. Section A is compulsory - All questions in Section A must be answered.
7. You must attempt one question from each of the Sections B, C and D and one other question from any Section of your choice.
8. The intended marks for questions or parts of questions are given in brackets [ ].

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**1. Define Ohm's Law and describe an experiment to verify it.**

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**2. State Fleming's Left-Hand Rule and explain its application in an electric motor.**

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**3. Calculate the equivalent resistance of three resistors  $R_1, R_2, R_3$  connected in parallel.**

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**4. What is a Redox reaction? Explain with a balanced chemical equation.**

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**5. Write the chemical name, formula, and two main uses of Plaster of Paris.**

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**6. What is the difference between Roasting and Calcination? Give one example of each.**

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**7. Explain the mechanism of Pulmonary Circulation (Double Circulation) in the human heart.**

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**8. How is the sex of a child determined in humans? Explain using a flow chart.**

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**9. State Mendel's Law of Dominance and explain it with a monohybrid cross.**

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**10. What is the Ozone Layer, and how is it getting depleted?**

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