

UP Board Class 10 Science Model Paper

Time: 3 Hours
Maximum Marks: 70

Instructions:

1. All questions are compulsory.
2. Attempt questions according to marks.
3. Draw neat diagrams wherever required.

Section A (1×10 = 10 Marks)

1. Define chemical reaction.
2. What is pH scale?
3. Write formula of Plaster of Paris.
4. What is corrosion?
5. Write full form of LPG.
6. What is oxidation?
7. Write chemical formula of washing soda.
8. What is neutralization reaction?
9. Write pH value of pure water.
10. What gas is released when metal reacts with acid?

Section B (2×10 = 20 Marks)

11. Differentiate between oxidation and reduction.
12. Explain displacement reaction with example.
13. Write reaction of NaHCO_3 on heating.
14. What is chlor-alkali process?
15. Write two properties of acids.
16. What is rusting? Explain with equation.
17. Write uses of bleaching powder.
18. Explain exothermic reaction with example.
19. What happens when Zn reacts with HCl?
20. Write differences between strong and weak acids.

Section C (5×8 = 40 Marks)

21. Explain types of chemical reactions with examples.
22. Explain pH scale in detail and its importance.
23. Describe properties and uses of washing soda and baking soda.
24. Explain preparation and uses of Plaster of Paris.
25. Explain corrosion and its prevention methods.
26. Explain acid-base indicators and their uses.
27. Describe reactions of acids with metals and metal carbonates.
28. Explain redox reaction with suitable examples.