

Chemistry Question Bank

Prepared by: Dr. Y.S. Yadav

Short Answer Questions

1. Why water contracts when heated between 0°C and 4°C ?
2. Why o-nitrophenol can be steam distilled and not p-nitrophenol?
3. Density of ice is less than water. Why?
4. What do you understand by molecular orbital?
5. Which species out of H_2 , H_2^{2+} and H_2^{2-} are paramagnetic and why?
6. What are liquid crystals?
7. Why graphite is good conductor of electricity?
8. What do you understand by the terms space lattice and unit cell?
9. Define order and Molecularity of reaction.
10. What is degree of freedom?
11. What is a salt bridge?
12. What do you understand by electrode potential?
13. Why copper does not dissolve in HCl but dissolves in dilute HNO_3 . E° values of Cu^{2+}/Cu and H^+/H_2 are 0.34 and 0. Also, $E^{\circ}_{\text{NO}_3^-/\text{NO}}$ is 0.96V.
14. What is corrosion of metals?
15. Why metals have tendency to get corroded?

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16. What is inductive effect?
17. What are (i) Carbocations (ii) Carbanions
18. What do you mean by chirality
19. How many types of polymerizations do you know?
20. Give three differences in thermoplastic and thermosetting resins.
21. Clarify fiber, rayon and fabric.
22. What are intrinsically conducting polymers?
23. Why do we need biodegradable polymers?
24. What is an organometallic compound?
25. In how many ways is chemical analysis carried out?
26. Explain acidimetry and alkalinimetry.
27. What is calorific value of a fuel.
28. What is fingerprint region?
29. What is biomass and biogas.
30. What is calgon conditioning of boiler feed water?