

REVISION TEST -III**CLASS : XII****MARKS : 70****SUBJECT : CHEMISTRY (FULL PORTION)****TIME : 3.00 HRS****PART-I****CHOOSE THE BEST ANSWER****15 X 1 = 15**

- Wolframite ore is separated from tinstone by the process of
 - Smelting
 - Calcination
 - Roasting
 - Electromagnetic separation
- The stability of +1 oxidation state increases in the sequence
 - Al < Ga < In < Tl
 - Tl < In < Ga < Al
 - In < Tl < Ga < Al
 - Ga < In < Al < Tl
- The actinoid elements which show the highest oxidation state of +7 are
 - Np, Pu, Am
 - U, Fm, Th
 - U, Th, Md
 - Es, No, Lr
- Which type of geometry for a complex $[\text{Co}(\text{NH}_3)_6]^{3+}$
 - trigonal bipyramidal
 - octahedral
 - tetrahedral
 - square planar
- If 75% of a first order reaction was completed in 60 minutes, 50% of the same reaction under the same conditions would be completed in
 - 20 minutes
 - 30 minutes
 - 35 minutes
 - 75 minutes
- Which of these is not likely to act as lewis base?
 - BF_3
 - PF_3
 - CO
 - F
- On which of the following properties does the coagulating power of an ion depend ?
 - Both magnitude and sign of the charge on the ion.
 - Size of the ion alone
 - the magnitude of the charge on the ion alone
 - the sign of charge on the ion alone.
- Which of the following compounds on reaction with methyl magnesium bromide will give tertiary alcohol.
 - benzaldehyde
 - propanoic acid
 - methyl propanoate
 - acetaldehyde
- The product formed by the reaction an aldehyde with a primary amine
 - carboxylic acid
 - aromatic acid
 - schiff 's base
 - ketone
- Among the following the achiral amino acid is
 - 2-ethylalanine
 - 2-methylglycine
 - 2-hydroxymethylserine
 - Tryptophan
- Hybridisation of XeOF_2 is _____
 - SP^3
 - SP^3d
 - sp^3d^2
 - sp^3
- Packing efficiency of face centred cubic (FCC)
 - 52.31%
 - 68%
 - 74%
 - 52.13%
- Laptops have _____
 - Lead storage battery
 - Fuel cell
 - Mercury button cell
 - Lithium-ion battery

14. _____ is used in the manufacture of thermosoftening plastic perspex
 (a) Benzaldehyde (b) Acetone
 (c) Acetaldehyde (d) Benzophenone
15. Match the following
- | | |
|--------------------------------------|--|
| (1) Major tranquilizers | (i) Non steroidal anti-inflammatory drug |
| (2) Analgesics | (ii) propofol |
| (3) NSAIDs | (iii) clozapine |
| (4) Intravenous general anaesthetics | (iv) Aspirin |
- (a) (1)-(iii) (2)-(iv) (3)-(i) (4)-(ii) (b) (1)-(i) (2)-(ii) (3)-(iii) (4)-(iv)
 (c) (1)-(ii) (2)-(i) (3)-(iv) (4)-(iii) (d) (1)-(iv) (2)-(iii) (3)-(ii) (4)-(i)

PART-II

Answer the following any six questions

6 X 2 = 12

Note : Question no : 24 is compulsory

16. Write a note on gravity separation method ?
 17. Out of $\text{Lu}(\text{OH})_3$ and $\text{La}(\text{OH})_3$ which is more basic and why ?
 18. Explain the structure of amine
 19. What is packing efficiency ?
 20. Define ionic product of water .Give its value at room temperature
 21. Write a note on Electrophoresis ?
 22. give the uses of diethyl ether
 23. Write note on benzoin condensation?
 24. Write the IUPAC names for the following compounds
 i) $[\text{Co}(\text{ONO})(\text{NH}_3)_5]^{2+}$ ii) $[\text{Co}(\text{en})_3]\text{SO}_4$

PART-III

Answer the following any six questions

6 X 3 = 18

Note : Question no : 33 is compulsory

25. What is lanthanide or lanthanoide contraction explain its consequences \
26. $[\text{Fe}(\text{CN})_6]^{3-}$ paramagnetic , explain using VBtheory
27. Derive an expression for Nernst equation
28. Define molar conductance and specific conductance
29. give any three difference between chemisorption and physisorption
30. formic acid reduces tollen's reagent whereas acetic acid does not reduce give reason
31. Describe the structure of diborane
32. what are narcotic and non-narcotic drugs. give examples
33. Mention the biological importance of lipids

PART-IV

ANSWER ALL THE QUESTIONS

5 X 5 = 25

34. a) i) Explain concentration by magnetic separation with diagram
 ii) What is inert pair effect ?

(OR)

- b) i) .which type of ores can be concentrated by froth flotation method give two example
 ii) Give the uses of argon

35. a) i) Complete the following reaction ?



- ii) Calculate the magnetic moment and magnetic property of $[\text{CoF}_6]^{3-}$

(OR)

- b) i) what are the limitation of VB theory ?
 ii) Write any three difference between tetrahedral and Octahedral voids

36. a) i) write two difference between rate and rate constant of a reaction

- ii) Give examples for the first order reactions

(OR)

- b) i) What are the limitations of Arrhenius concept ?

- ii) Define equivalent conductance

37. a) i) Explain intermediate compound formation theory of catalysis with an example

- ii) How is neoprene prepared ?

(OR)

- b) i) How will you prepare picric acid from phenol?

- ii) what is metamerism and give one example?

38. a) Explain the structure of fructose

(OR)

- b)i) Write the reaction of electrolytic reduction of nitro benzene?

- ii)Identify compounds A,B and C for the following


