## **REVISION TEST-I**

CLASS: XII MARKS: 70
SUBJECT: CHEMISTRY (FULL PORTION) TIME: 3.00 HRS

| PART-I  |   |    |  |  |
|---|---|----|--|--|
| CHOOSE THE BEST ANSWER                            | $15 \times 1 = 15$                                |    |  |  |
| 1. Boric acid is an acid because its molecule     |   |    |  |  |
| a) contains replaceable H+ ion                    | b) gives up a proton                              |    |  |  |
| c)combines with proton to form water mole         | ecule   |    |  |  |
| d) accepts OH- from water ,releasing proto        | n   |    |  |  |
| 2. In the brown ring test, brown colour of the 1  | ring is due to                                    |    |  |  |
| a) a mixture of No and NO <sub>2</sub>            | b) Nitroso ferrous sulphate                       |    |  |  |
| c) Ferrous nitrate                                | d) Ferric nitrate                                 |    |  |  |
| 3. A complex in which the oxidation number of     | of the metal is zero is                           |    |  |  |
| a) $K_4[Fe(CN)_6]$ b) $[Fe(CN)_3(NH_3)_3]$        | c) $[Fe(CO)_5]$ d) both b and c                   |    |  |  |
| 4. Graphite and diamond are                       |   |    |  |  |
| a) Covalent and molecular crystals                | b) ionic and covalent crystals                    |    |  |  |
| c) both covalent crystals                         | d) both molecular crystals                        |    |  |  |
| 5. The pH of an aqueous solution is Zero. The     | solution is                                       |    |  |  |
| a) slightly acidic b) strongly acidic             | c) neutral d) basic                               |    |  |  |
| 6. Zinc can be coated on iron to produce galva    | nized iron but the reverse is not possible. It is | is |  |  |
| because   |   |    |  |  |
| a) Zinc is lighter than iron                      | b) Zinc has lower melting point than iron         | L  |  |  |
| c) Zinc has lower negative electrode potent       | tial than iron                                    |    |  |  |
| d) Zinc has higher negative electrode potent      | tial than iron                                    |    |  |  |
| 7. Carbolic acid is                               |   |    |  |  |
|   | d) benzoic acid d) phenylacetic acid              |    |  |  |
| 8. The formation of cyanohydrin from acetone      |   |    |  |  |
| a) nucleophilic substitution                      | b) electrophilic substitution                     |    |  |  |
| c) electrophilic addition                         | d) Nucleophilic addition                          |    |  |  |
| 9. Which one given below is a non-reducing state. | ugar?   |    |  |  |
| a) Glucose b) Sucrose c                           | e) maltose d) Lactose                             |    |  |  |
| 10. The drug used to induce sleep is              |   |    |  |  |
| * •   | ) chloroquine d) equanil                          |    |  |  |
| 11 method is separate for low both                |   |    |  |  |
| a) Liquation b) Distillation c) Va                | _   |    |  |  |
| 12. The actual position of actinoide in the per   |   |    |  |  |
| (a) group number 3 period number 4 (              | -   |    |  |  |
| (c) group number 4 period number 4                | (d) group number 3 period number 7                |    |  |  |

| 13.Decomposit   | tion of thionylc                        | hloride ord   | ler reaction                  |  |
|---|---|---|-------------------------------|--|
| a) zero   | b) first                                | c) second   | d) third                      |  |
| 14. W <sub>3</sub> O <sub>5</sub> sol i                               | is                                      | shape   |                               |  |
| a) spherical  | b) Disc                                 | c) Rod  | d) none of these              |  |
|   |   | ompound iupac name i  |                               |  |
| a) Prop-2-e   |   | , .   | o-1-en-3-amine                |  |
| c) ethaen-2-  | 1-amine                                 | ,   | 2-en-1-amine                  |  |
| Answer the fo   | llowing any six                         | PART-II   | 6 X 2 = 12                    |  |
|   | on on : 24 is co                        | <del>-</del>  | 0 A 2 - 12                    |  |
| _   |   | quaregia what is its use  | e ?                           |  |
| 17. Transition  | metals show hig                         | gh melting points why?  |                               |  |
| 18. Give the difference between double salt and coordination compound |   |   |                               |  |
| 19. What are primitive and non primitive unit cell?                   |   |   |                               |  |
| 20. Define solu   | ibility product                         |   |                               |  |
| 21. What is het   | terogeneous cat                         | alysis? give example  |                               |  |
| 22. Write the to  | est for esterifica                      | ation reaction?   |                               |  |
| 23. Identify A  |   | 77/4577   |                               |  |
| A.  | Na(Hg)/C <sub>2</sub> H <sub>5</sub> O  | $\longrightarrow$ CH <sub>3</sub> -CH <sub>2</sub> -                      | NH <sub>2</sub>               |  |
|   | Na(Hg)/C <sub>2</sub> H <sub>5</sub> Ol | H/4[H]  |                               |  |
| В   |   | CH <sub>3</sub> -NH-  | $\mathrm{CH}_3$               |  |
| i) $C_2H_5$ -(  |   | ollowing compouds<br>ii) C <sub>6</sub> H <sub>5</sub> -O-CH <sub>3</sub> |                               |  |
| 1) 02113  | 3 (113                                  | PART-III  |                               |  |
|   | llowing any six                         | _   | $6 \times 3 = 18$             |  |
| _   | on no: 33 is con                        |   | 1                             |  |
| •   |   | lanthanides and actinion  | ies.                          |  |
|   | e limitation of                         |   |                               |  |
| 27. What are the conversion used Galvanic cell notation?              |   |   |                               |  |
| 28. State kohlrausch law and explain any one of the application       |   |   |                               |  |
| 29.Explain inte   | ermediate comp                          | ound formation theory   | of catalysis with an example  |  |
| 30. Write the to  | est for carboxyl                        | ic acid group   |                               |  |
| 31. Write a sho   | ort note on pepti                       | ide bond  |                               |  |
| 32. What is antiseptic agent give an example?                         |   |   |                               |  |
| 33. what are th   | e factors respon                        | nsible for the anomalou   | is behaviour of first element |  |
| of the p-b  | lock?                                   |   |                               |  |

## **PART-IV**

## ANSWER ALL THE QUESTIONS

 $5 \times 5 = 25$ 

- 34. a) i) What are the difference between minerals and ores?
  - ii)Describe mond process for refining nickel.

(OR)

- b) i) How is potash alum prepared?
  - ii) What are interhalogen compounds? give two examples
- 35. a) i) What are the hybridisation of IF<sub>7</sub>? Give its structure
  - ii) What is crystal field stabilization energy?

(OR)

- b) i) [Ni(CO)<sub>4</sub>] diamagnetic, explain using VB theory
  - ii) Define unit cell
- 36. a) derive integrated rate law for a zero order reaction  $A \rightarrow$  product.

(OR)

- b) i) Derive an expression for ostwald dilution law
  - ii) what is electrochemical equivalent?
- 37. a) i) Write any three characters of catalysts?
  - ii) What are bio degrable polymers? Give examples

(OR)

- b) i) differentiate primary secondary and tertiary alcohols using Lucas test
  - ii) How is ethylene glycol converted into 1,4 dioxane?
- 38. a) i) Write the mechanism of aldol condensation reaction
  - ii) Draw the structure of lactose and Sucrose

(OR)

- b) i) write short note on Gabriel phthalimide synthesis
  - ii) What is carbylamine rreaction

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