

0223**A**

Total No. of Questions—21

Total No. of Printed Pages—3

Regd. No.

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Part III

CHEMISTRY, Paper - II

(English Version)

Time : 3 Hours]**[Max. Marks : 60****Note :—**Read the following instructions carefully :

- (1) Answer **ALL** questions of Section A. Answer any **SIX** questions in Section B and answer any **TWO** questions in Section C.
- (2) In Section A, questions from Sr. Nos. 1 to 10 are of 'Very Short Answer Type'. Each question carries **TWO** marks. Every answer may be limited to *two or three* sentences. Answer all these questions at one place in the same order.
- (3) In Section B, questions from Sr. Nos. 11 to 18 are of 'Short Answer Type'. Each question carries **FOUR** marks. Every answer may be limited to **75** words.
- (4) In Section C, questions from Sr. Nos. 19 to 21 are of 'Long Answer Type'. Each question carries **EIGHT** marks. Every answer may be limited to **300** words.
- (5) Draw labelled diagrams wherever necessary for questions in Sections B and C.

SECTION A

10 × 2 = 20

Note :—Answer **ALL** the questions.

1. Define Osmotic Pressure.
2. State Faraday's First Law of Electrolysis.
3. What is the role of cryolite in the metallurgy of Aluminium ?

4. What is 'Tailing of Mercury' ? How is it removed ?
5. Explain the structure of XeO_3 .
6. $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ is blue in colour whereas anhydrous CuSO_4 is colourless. Why ?
7. Write the names of monomers for the following polymers :
 - (a) Bakelite
 - (b) Teflon.
8. What is biodegradable polymer ? Give *one* example of a biodegradable polymer.
9. What is Zwitter ion ? Give an example.
10. What are tranquilizers ? Give an example.

SECTION B

6×4=24

Note :—Answer **ANY SIX** questions.

11. Explain Schottky and Frenkel defects.
12. What is relative lowering of vapour pressure ? How is it useful to determine the molar mass of a solute ? <https://www.telanganaboard.com>
13. What are Emulsions ? How are they classified ?
14. Write any *two* ores with formulae of the following metals :
 - (i) Aluminium
 - (b) Iron.
15. Write the IUPAC names of the following co-ordination compounds :
 - (a) $[\text{Co}(\text{NH}_3)_4(\text{H}_2\text{O})\text{Cl}]\text{Cl}_2$
 - (b) $[\text{Ni}(\text{CO})_4]$
 - (c) $\text{K}_3[\text{Fe}(\text{CN})_6]$
 - (d) $\text{K}_3[\text{Al}(\text{C}_2\text{O}_4)_3]$.
16.
 - (a) What is denaturation of proteins ?
 - (b) What are food preservatives ? Give example.
17.
 - (a) Write the isomers of the compound having molecular formula $\text{C}_4\text{H}_9\text{Br}$.
 - (b) What are Enantiomers ?

18. Explain the following reactions with equations :

- (a) Hofmann bromamide degradation
- (b) Sandmeyer reaction.

SECTION C

2×8=16

Note :— Answer ANY TWO questions.

19. (a) What are galvanic cells ? Explain the working of a galvanic cell with a neat sketch taking Daniel cell as example.
- (b) What is 'molecularity' of a reaction ? How is it different from the 'order' of a reaction ? Name *one* bimolecular and *one* trimolecular gaseous reactions.
20. (a) Explain in detail the manufacture of Sulphuric acid by contact process.
- (b) Explain the reactions of Ammonia with :
- (i) $ZnSO_4$ (aq)
 - (ii) $AgCl$ (s).
21. Explain the following reactions with equations :
- (a) Kolbe's reaction
 - (b) Reimer-Tiemann reaction
 - (c) Williamson synthesis
 - (d) Esterification.

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