

Objective  
Paper Code  
**8487**

Intermediate Part Second - 103  
**CHEMISTRY (Objective) GROUP - I**  
Time: 20 Minutes Marks: 17

Roll No. : \_\_\_\_\_



Q.No.1

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

| S.# | Questions                                                                     | A                      | B                             | C                             | D                             |
|-----|-------------------------------------------------------------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| 1   | During nitration of benzene, the active nitrating agent is:                   | $\text{NO}_2$          | $\text{HNO}_3$                | NO                            | $\text{NO}_2^+$               |
| 2   | For which Mechanism, the first step involved is the same?                     | E1 and E2              | E2 and $\text{S}_{\text{N}}2$ | $\text{S}_{\text{N}}1$ and E2 | E1 and $\text{S}_{\text{N}}1$ |
| 3   | Which enzyme is not involved in fermentation of starch?                       | Diastase               | Zymase                        | Urease                        | Invertase                     |
| 4   | Cannizzaro's reaction is not given by:                                        | Acetaldehyde           | Formaldehyde                  | Benzaldehyde                  | Trimethyl acetaldehyde        |
| 5   | Acetic acid was first isolated from:                                          | Milk                   | Vinegar                       | Butter                        | Red ant                       |
| 6   | Which is an addition polymer?                                                 | Nylon 6-6              | Terylene                      | Polystyrene                   | Epoxy resin                   |
| 7   | Phosphorus helps the growth of:                                               | Root                   | Leave                         | Stem                          | Seed                          |
| 8   | The pH range of the acid rain is:                                             | 7 - 6.5                | 6.5 - 6                       | 6 - 5.6                       | Less than 5                   |
| 9   | Half of the atmospheric mass is concentrated in the lower:                    | 5.6 km                 | 10.6 km                       | 15.6 km                       | 20.6 km                       |
| 10  | Among alkali metal ions, minimum hydration energy is shown by:                | $\text{Li}^+$          | $\text{Na}^+$                 | $\text{Rb}^+$                 | $\text{K}^+$                  |
| 11  | The oxide of beryllium is:                                                    | Acidic                 | Basic                         | Neutral                       | Amphoteric                    |
| 12  | Which element is not present abundantly in earth's crust?                     | Si                     | Al                            | Na                            | O                             |
| 13  | Which catalyst is used to contact process?                                    | $\text{V}_2\text{O}_5$ | $\text{Fe}_2\text{O}_3$       | $\text{SO}_3$                 | $\text{Ag}_2\text{O}$         |
| 14  | Chlorine heptaoxide ( $\text{Cl}_2\text{O}_7$ ) reacts with water to form:    | Hypochlorous acid      | Chloric acid                  | Perchloric acid               | Chlorine and oxygen           |
| 15  | Coordination number of Pt in $[\text{Pt Cl}(\text{NO}_2)(\text{NH}_3)_4]$ is: | 02                     | 04                            | 01                            | 06                            |
| 16  | Which set of hybrid orbitals has planar triangular shape?                     | $\text{sp}^2$          | $\text{sp}^3$                 | sp                            | $\text{dsp}^2$                |
| 17  | Vinyl acetylene combines with $\text{HCl}$ to form:                           | Poly acetylene         | Chloroprene                   | Benzene                       | Divinyl acetylene             |

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