



**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 the manufacturing process of cement the temperature of decomposition zone goes up to: | 600°C                                       | 900°C                                                          | 1000°C                                                                | 1200°C                                             |
| 2   | Carboxylic acids on reduction with HI and red phosphorus gives:                              | Alkanes                                     | Alcohols                                                       | Aldehydes                                                             | Ketones                                            |
| 3   | Which acid is used in the manufacture of synthetic fiber?                                    | Formic acid                                 | Oxalic acid                                                    | Carbonic acid                                                         | Acetic acid                                        |
| 4   | The compound used in the processing of anti-polio vaccine is:                                | Acetaldehyde                                | Formaldehyde                                                   | Acetone                                                               | Ethyl bromide                                      |
| 5   | Formalin is _____ solution of Formaldehyde in water.                                         | 10%                                         | 20%                                                            | 40%                                                                   | 60%                                                |
| 6   | Which compound will have maximum repulsion with H <sub>2</sub> O?                            | C <sub>6</sub> H <sub>6</sub>               | C <sub>2</sub> H <sub>5</sub> OH                               | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH                    | CH <sub>3</sub> -O-CH <sub>3</sub>                 |
| 7   | Which is not a nucleophile?                                                                  | H <sub>2</sub> O                            | H <sub>2</sub> S                                               | BF <sub>3</sub>                                                       | NH <sub>3</sub>                                    |
| 8   | The electrophile in aromatic sulphonation is:                                                | H <sub>2</sub> SO <sub>4</sub>              | HSO <sub>4</sub> <sup>-</sup>                                  | SO <sub>3</sub>                                                       | SO <sub>3</sub> <sup>+</sup>                       |
| 9   | Formula of chloroform is:                                                                    | CH <sub>3</sub> Cl                          | CCl <sub>4</sub>                                               | CH <sub>2</sub> Cl <sub>2</sub>                                       | CHCl <sub>3</sub>                                  |
| 10  | A double bond consists of:                                                                   | Two sigma bonds                             | One sigma and one pi bond                                      | One sigma and two pi bonds                                            | Two pi bonds                                       |
| 11  | The colour of transition metal complexes is due to:                                          | d-d transition of electrons                 | Paramagnetic nature of transition elements                     | Ionization                                                            | Loss of s-electrons                                |
| 12  | The anhydride of HClO <sub>4</sub> is:                                                       | ClO <sub>3</sub>                            | ClO <sub>2</sub>                                               | Cl <sub>2</sub> O <sub>5</sub>                                        | Cl <sub>2</sub> O <sub>7</sub>                     |
| 13  | Which halogen is a solid at room temperature and pressure?                                   | F <sub>2</sub>                              | Cl <sub>2</sub>                                                | Br <sub>2</sub>                                                       | I <sub>2</sub>                                     |
| 14  | Among group VA elements, the most electronegative element is:                                | Sb                                          | N                                                              | P                                                                     | As                                                 |
| 15  | Tinocal is a mineral of:                                                                     | Al                                          | B                                                              | Si                                                                    | C                                                  |
| 16  | Chile Saltpeter has the chemical formula:                                                    | NaNO <sub>3</sub>                           | KNO <sub>3</sub>                                               | Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>                         | Na <sub>2</sub> CO <sub>3</sub> · H <sub>2</sub> O |
| 17  | Mark the correct statement:                                                                  | Metallic character increases down the group | Metallic character increases from left to right along a period | Metallic character remains the same from left to right along a period | Metallic character remains the same down the group |