

Chemistry(Objective Type)

Group - II

Time:20 Minutes

Marks:17

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A, B, C & D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with marker or pen ink on the answer sheet provided.

- 1.1. The solution of which acid is used for seasoning of food :
 (A) Acetic acid (B) Butanoic acid (C) Formic acid (D) Benzoic acid
2. Which of these polymers is a synthetic polymer?
 (A) Animal fat (B) Cellulose (C) Starch (D) Polyester
3. Micro Nutrients are required in quantity ranging from :
 (A) 4 – 40g (B) 6 – 200g (C) 6 – 200 Kg (D) 4 – 40 Kg
4. Fresh water used by agriculture is approximately :
 (A) 69% (B) 75% (C) 80% (D) 95%
5. Carbon monoxide is a colourless, odourless and highly :
 (A) Non-toxic gas (B) Beneficial gas (C) Toxic gas (D) Bio gas
6. Mark the correct statement :
 (A) The ionization energy of calcium is lower than that of Barium.
 (B) The ionization energy of calcium is lower than that of Magnesium
 (C) The ionization energy of calcium is higher than that of Beryllium
 (D) The ionization energy of calcium is lower than that of strontium
7. Down's cell is used to prepare :
 (A) Sodium Carbonate (B) Sodium bicarbonate (C) Sodium metal (D) Sodium Hydroxide
8. Chemical composition of colemanite is :
 (A) $Ca_2B_6O_{11} \cdot 5H_2O$ (B) $CaB_4O_7 \cdot 4H_2O$ (C) $Na_2B_4O_7 \cdot 4H_2O$ (D) $Ca NaB_5O_7 \cdot 8H_2O$
9. Which catalyst is used in contact process :
 (A) Fe_2O_3 (B) V_2O_5 (C) SO_3 (D) Ag_2O
10. Which halogen occurs naturally in a positive oxidation state :
 (A) Fluorine (B) Chlorine (C) Bromine (D) Iodine
11. Group VI B of transition elements contains :
 (A) Zn, Cd, Hg (B) Fe, Ru, Os (C) Cr, Mo, W (D) Mn, Te, Re
12. The chemist who synthesized urea from ammonium cyanate was :
 (A) Lavoiser (B) Wohler (C) Kolbe (D) Berzelius
13. Vinyl acetylene combines with HCl to form :
 (A) Divinyl acetylene (B) Chloroprene (C) Polyacetylene (D) Benzene
14. Among the following, the compound that can be most readily sulphonated is :
 (A) Toluene (B) Benzene (C) Nitrobenzene (D) Chlorobenzene
15. When CO_2 is made to react with C_2H_5MgBr , followed by acid hydrolysis, the product formed is :
 (A) Propanol (B) Propanal (C) Propionic acid (D) Propane
16. Which compound is more soluble in water :
 (A) CH_3CH_2OH (B) C_6H_5-OH (C) n-Hexanol (D) $CH_3CH_2CH_2CH_3$
17. CH_3COCH_3 reacts with HCN to form a cyanohydrin. It is an example of :
 (A) Nucleophilic substitution (B) Nucleophilic addition
 (C) Electrophilic addition (D) Electrophilic substitution