



Roll No _____

HSSC-(P-I)-A/2024
(For All Sessions)

Paper Code

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Chemistry (Objective)RWP-2-24
(Group-II)

Time: 20 Minutes Marks : 17

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and 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 Mixture of NH_4OH and NH_4Cl is one of the best example of:
(A) Acidic buffer (B) Basic buffer (C) Common ion effect (D) Solubility product
2. Molarity of pure water is:
(A) 1 (B) 18 (C) 55.5 (D) 6
3. Stronger the oxidizing agent, greater is the:
(A) Oxidation potential (B) Reduction potential (C) Redox potential (D) E.M.F. of cell
4. The process in which catalyst and reactant are in different phases is called:
(A) Homogeneous catalysis (B) Heterogeneous catalysis (C) Autocatalysis (D) Negative catalysis
5. The efficiency of a reaction can be checked by calculating its:
(A) Theoretical yield (B) Actual yield (C) Percentage yield (D) Mass
6. The mass of one mole of electrons is:
(A) 1.008 mg (B) 0.55 mg (C) 0.184 mg (D) 1.673 mg
7. A safe and reliable method for drying the crystals is by using:
(A) Vacuum desiccators (B) Oven (C) Filter paper (D) Spreading the crystals in open air
8. Chromatography in which stationary phase is liquid is classified as:
(A) Thin layer chromatography (B) Gas chromatography (C) Adsorption chromatography (D) Partition chromatography
9. The partial pressure of oxygen in lungs is:
(A) 159 torr (B) 116 torr (C) 1160 torr (D) 1590 torr
10. Smell of the cooking gas during leakage from a gas cylinder is due to the process of:
(A) Osmosis (B) Diffusion (C) Effusion (D) Evaporation
11. When water freezes at 0°C , its density decreases due to:
(A) Cubic structure of ice (B) Empty spaces present in the structure of ice
(C) Change of bond lengths (D) Change of bond angles
12. Ice and sugar are the best examples of:
(A) Ionic solids (B) Covalent solids (C) Molecular solids (D) Metallic solids
13. The name of proton was suggested by:
(A) Bohr (B) J.J Thomson (C) Rutherford (D) Stoney
14. When 6d orbital is complete, the entering electron goes into:
(A) 7f (B) 7s (C) 7p (D) 7d
15. The covalent radius of hydrogen is:
(A) 176.7 pm (B) 37.7 pm (C) 75.4 pm (D) 77.3 pm
16. Which of the following molecule has zero dipole moment?
(A) NH_3 (B) CHCl_3 (C) H_2O (D) BF_3
17. The product of mass and specific heat of water is called:
(A) Heat capacity (B) Enthalpy of reaction (C) Heat of a reaction (D) Buffer capacity