

## Note:

Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer book. Cutting or filling two or more circles will result in zero mark in that question.

- 1.1** Molarity is the number of moles of solute dissolved in:  
 (A) One kg of solution (B)  $1 \text{ dm}^3$  of solution  
 (C) 100 g of solvent (D)  $1 \text{ dm}^3$  of solvent
- 2** The number of moles which are equivalent to 5 grams of  $\text{CO}_2$   
 (A) 0.15 (B) 0.18  
 (C) 0.21 (D) 0.24
- 3** Which one of the following non-metal is lustrous  
 (A) Iodine (B) Carbon  
 (C) Phosphorus (D) Sulphur
- 4** The compound that is a heteroatomic molecule  
 (A)  $\text{Cl}_2$  (B)  $\text{H}_2\text{O}_2$   
 (C)  $\text{O}_3$  (D)  $\text{H}_2$
- 5** Oxidation number of all elements in the free state is  
 (A) +1 (B) zero  
 (C) -1 (D) +3
- 6** The number of subshells in N shell is  
 (A) One (B) Two  
 (C) Three (D) Four
- 7** In the redox reaction between Zn and  $\text{HCl}$ , the oxidizing agent is  
 (A) Zn (B)  $\text{H}_2$   
 (C)  $\text{H}^+$  (D)  $\text{Cl}^-$
- 8** A bond formed between two non-metals is:  
 (A) Covalent (B) Coordinate covalent  
 (C) Ionic (D) Metallic
- 9** The element that has highest electronegativity  
 (A) Chlorine (B) Bromine  
 (C) Fluorine (D) Iodine
- 10** Vapour pressure of water in mmHg at  $80^\circ\text{C}$  is  
 (A) 17.5 (B) 55.3  
 (C) 149.4 (D) 355.1
- 11** Identify the compound which is not soluble in water  
 (A)  $\text{MgCl}_2$  (B)  $\text{KBr}$   
 (C)  $\text{NaCl}$  (D)  $\text{C}_6\text{H}_6$
- 12** Which one of the following is heterogeneous mixture  
 (A) Salt solution (B) Alcohol in water  
 (C) Milk of magnesia (D) Sugar solution