

**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** Colour of concentrated solution of  $\text{KMnO}_4$  is:  
Ⓐ Dense red Ⓑ Dense purple  
Ⓒ Dense orange Ⓓ Dense white
- 2** Free mobile electrons are present in:  
Ⓐ Metals Ⓑ Non-metals  
Ⓒ Ionic compounds Ⓓ Covalent compounds
- 3** Which one of the following element belongs to group eleven (11):  
Ⓐ CO Ⓑ Ni  
Ⓒ Cu Ⓓ Zn
- 4** Mass of an electron is:  
Ⓐ  $1.672 \times 10^{-24}$  g Ⓑ  $1.0087 \times 10^{-24}$  g  
Ⓒ  $9.262 \times 10^{-24}$  g Ⓓ  $9.106 \times 10^{-28}$  g
- 5** In electroplating of silver, silver ions deposit on:  
Ⓐ Rubber Ⓑ Glass  
Ⓒ Spoon Ⓓ Steel
- 6** Which one is free radicals:  
Ⓐ  $\text{Cl}^\cdot$  Ⓑ  $\text{H}^+$   
Ⓒ  $\text{Cl}$  Ⓓ  $\text{Cl}_2$
- 7** Metal hydrides have oxidation number:  
Ⓐ -1 Ⓑ -2  
Ⓒ -3 Ⓓ -4
- 8** Lanthanum series started from  $Z = ?$ :  
Ⓐ 56 Ⓑ 57  
Ⓒ 58 Ⓓ 59
- 9** The father of nuclear science is:  
Ⓐ Ruther Ford Ⓑ Bohr  
Ⓒ Thamson Ⓓ Crooks
- 10** Which one molecule will evaporate first:  
Ⓐ  $\text{C}_6\text{H}_{14}$  Ⓑ  $\text{C}_8\text{H}_{18}$   
Ⓒ  $\text{C}_{10}\text{H}_{22}$  Ⓓ  $\text{C}_{12}\text{H}_{26}$
- 11** Which one is more stable and hard covalent compound:  
Ⓐ  $\text{CH}_4$  Ⓑ  $\text{CO}_2$   
Ⓒ  $\text{H}_2\text{SO}_4$  Ⓓ  $\text{C}_6\text{H}_{12}\text{O}_6$
- 12** Dental amalgam for filling of tooth is a type of solution:  
Ⓐ Gas-gas Ⓑ Liquid-liquid  
Ⓒ Liquid-solid Ⓓ Solid-solid