

| 10. | Which has maximum number of atoms?  |   |   |                                 |
|-----|---|---|---|---------------------------------|
|     | a) 24 g of C (12)   | b) 56 g of Fe (56)  | c) 27 g of Al (27)                            | d) 108 g of Ag (108)            |
| 11. | A sample of copper sulphate pentahydrate contains 8.64 g of oxygen. How many gram of Cu is present in this sample?<br>(Atomic mass of Cu = 63.6, S = 32.06, O = 16)   |   |   |                                 |
|     | a) 0.952 g  | b) 3.816 g  | c) 3.782 g                                    | d)8.64 g                        |
| 12. | To neutralise completely 20 ML of 0.1 $M$ aqueous solution of phosphorous acid (H <sub>3</sub> PO <sub>3</sub> ), the volume of 0.1 $M$ aqueous KOH solution required is :                                  |   |   |                                 |
|     | a) 60 mL  | b) 20 mL  | c) 40 mL                                      | d)10 mL                         |
| 13. | $2 \text{ g of } O_2 \text{ at } O^0 C$ and 760 mm of Hg pressure has volume  |   |   |                                 |
|     | a) 1.4 L  | b) 2.8 L  | c) 11.2 L                                     | d) 22.4 L                       |
| 14. | An organic compound contains 20.0% C, 6.66% H, 47.33% N and the rest was oxygen. Its molar mass is 60 g mol <sup><math>-1</math></sup> the molecular formula of the compound is                             |   |   |                                 |
|     | a) $CH_4N_2O$   | b) $C_2H_4NO_2$   | c) $CH_3N_2O$                                 | d) $CH_4N_2O_2$                 |
| 15. | One mole of solute (Nata) > 1 <i>M</i>  | Cl) i <mark>s diss</mark> olved in 1 litre<br>b) < 1 <i>M</i> | water. The molarity of $c$ ) = 1 <i>M</i>     | solution is:<br>d) = $2 M$      |
| 16. | 100 mL of 0.1 N hypo decolourised iodine by the addition of $x$ gram of crystalline copper sulphate to excess of KI. The value of ' $x$ ' is (molecular wt. of CuSO <sub>4</sub> ,5H <sub>2</sub> O is 250) |   |   |                                 |
|     | a) 5.0 g  | b) 1.25 g   | c) 2.5 g                                      | d)4 g                           |
| 17. | Which of the following contains greatest number of oxygen atoms?<br>a) 1 g of 0 b) 1 g of 0 <sub>2</sub>  |   |   |                                 |
|     | c) 1 g of $O_3$   |   | d) All have the same nu                       | umber of atoms                  |
| 18. | The normality of $4\%$ (v a) 0.1  | vt./vol.) NaOH is:<br>b) 1.0                                  | c) 0.05                                       | d) 0 01                         |
|     |   | 5)110   | 0,000   |                                 |
| 19. | The mass of potassium dichromate crystals required to oxidise 750 cm <sup>3</sup> of 0.6 M Mohr's salt solution is (Given, molar mass : Potassium dichromate = $294$ . Mohr's salt = $392$ )                |   |   |                                 |
|     | a) 0.49 g   | b) 0.45 g   | c) 22.05 g                                    | d) 2.2 g                        |
| 20. | If 0.5 mole of $BaCl_2$ is m  | nixed with 0.2 mole of N                                      | a <sub>3</sub> PO <sub>4</sub> the maximum nu | mber of mole of Ba <sub>3</sub> |
|     | a) 0.7  | b) 0.5  | c) 0.30                                       | d)0.1                           |