



SKP VANITHA MATRICULATION SCHOOL
Tiruvannamalai, Tamil Nadu, India - 606 611

ENTERENCE EXAM

11th STANDARD

SUBJECT: CHEMISTRY

MARKS: 25

I. Choose the correct answer

(25x1=25)

1. The volume occupied by 4.4 g of CO₂ at S.T.P

- (a) 22.4 litre
- (b) 2.24 litre
- (c) 0.24 litre
- (d) 0.1 litre

2. Which of the following statement is incorrect?

- (a) One gram of C – 12 contains Avogadro's number of atoms.
- (b) One mole of oxygen gas contains Avogadro's number of molecules.
- (c) One mole of hydrogen gas contains Avogadro's number of atoms.
- (d) One mole of electrons stands for 6.023×10^{23} electrons.

3. 1 mole of any substance contains _____ molecules.

- (a) 6.023×10^{23}
- (b) 6.023×10^{-23}
- (c) 3.0115×10^{23}
- (d) 12.046×10^{23}

4. The volume occupied by 1 mole of a diatomic gas at S.T.P is

- (a) 11.2 litre
- (b) 5.6 litre
- (c) 22.4 litre
- (d) 44.8 litre

5. In the aluminothermic process, the role of Al is

- (a) oxidizing agent
- (b) reducing agent
- (c) hydrogenating agent
- (d) sulphurising agent

6. Neon shows zero electron affinity due to

- (a) Stable arrangement of neutrons
- (b) Stable configuration of electrons
- (c) Reduced size
- (d) Increased density

7. Deliquescence is due to

- (a) Strong affinity to water
- (b) Less affinity to water
- (c) Strong hatred to water
- (d) Inertness to water



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8. Which of the following is hygroscopic in nature?

- (a) ferric chloride
- (b) copper sulphate pentahydrate
- (c) silica gel
- (d) none of the above

9. Solubility of NaCl in 100 ml water is 36 g. If 25 g of salt is dissolved in 100 ml of water how much more salt is required for saturation?

- (a) 12g (b) 11g (c) 16g (d) 20g

10. 8% of NaCl solution is

- (a) 8 g of NaCl in 100 g of water
- (b) 8 g of NaCl in 92 g of water
- (c) 92 g of NaCl in 8 g of water
- (d) 92 g of NaCl in 100 g of water

11. The solubility of gases in liquid increases with

- (a) increased volume
- (b) increased pressure
- (c) decreased pressure
- (d) none of these

12. 40 g of sodium chloride in 100 g of water at 25° C forms ____ solution.

- (a) Super saturated
- (b) Unsaturated
- (c) Saturated
- (d) Both (a) and (b)

13. Example for solid in solid _____.

- (a) Soda water
- (b) Camphor in air
- (c) Charcoal
- (d) Alloy

14. An element 'A' on exposure to moist air turns to form compound 'B' which is reddish brown. Identify 'A' and 'B'.

- (a) 'A' is Ag, 'B' is Ag_2S
- (b) 'A' is Cu, 'B' is CuO
- (c) 'A' is Mg, 'B' is MgO
- (d) 'A' is Fe, 'B' is Fe_2O_3



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15. Which of the following information is not conveyed by a balanced chemical equation?

- a) Physical states of reactants and products
- b) Symbols and chemicals formula of reactants and products
- c) Number of atoms/molecules of the reactants and products formed
- d) Feasibility of a chemical reaction

16. Cyclobutane is an example of _____ compounds.

- (a) a cyclic
- (b) cyclic
- (c) aromatic
- (d) alicyclic

17. Chemical formula of acetaldehyde is

- (a) CH_3CHO
- (b) $\text{CH}_3\text{CH}_2\text{OH}$
- (c) $\text{CH}_3\text{COOCH}_3$
- (d) $\text{CH}_3\text{-O-CH}_3$

18. The organic compound contains 2 carbon atoms, the root word according IUPAC is

- (a) Meth –
- (b) Eth –
- (c) Prop –
- (d) But –

19. General molecular formula of alkynes is

- (a) $\text{C}_n\text{H}_{2n+2}$
- (b) C_nH_{2n}
- (c) $\text{C}_n\text{H}_{2n-2}$
- (d) $\text{C}_n\text{H}_{2n+1}$

20. Which among the following is / are the properties of organic compounds.

- (a) are covalent in nature
- (b) exhibit isomerism
- (c) have low melting and boiling point
- (a) (i) and (ii)
- (b) (i) and (iii)
- (c) (i), (ii) and (iii)
- (d) only (iii)

21. TFM in soaps represents _____ content in soap

- (a) mineral
- (b) vitamin
- (c) fatty acid
- (d) carbohydrate

22. Rectified spirit is an aqueous solution which contains about _____ of ethanol

- (a) 95.5 %
- (b) 75.5 %
- (c) 55.5 %
- (d) 45.5 %



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23. Which of the following are used as anaesthetics?

- (a) Carboxylic acids
- (b) Ethers
- (c) Esters
- (d) Aldehydes

24. The secondary suffix used in IUPAC nomenclature of an aldehyde is

- (a) - ol
- (b) - oic acid
- (c) - al
- (d) - one

25. The molecular formula of an open chain organic compound is C_3H_6 . The class of the compound is

- (a) alkane
- (b) alkene
- (c) alkyne
- (d) alcohol

ALL THE BEST