



Tsl12C

Tenkasi District  
Common Half Yearly Examination - 2023

05-01-2024

Standard 12  
CHEMISTRY  
Part - I

Marks: 70  
15x1=15

Time: 3.00 Hours

**Note:** Answer all the questions. Choose the best answer.

- 1) Titanium is purified by
  - a) Mond process
  - b) Van-Arkel method
  - c) Zone refining
  - d) Electrolytic refining
- 2) General empirical formula of silicone is
  - a)  $(R_2SiO)$
  - b)  $(RSiO)$
  - c)  $(R_2CO)$
  - d)  $(RSiH)$
- 3) Shape of  $XeOFe_4$  is .....
  - a) square pyramidal
  - b) pyramidal
  - c) linear
  - d) T-shaped
- 4) **Assertion** : In any transition series the magnetic moment of  $M^{2+}$  ions first increases and then decreases.  
**Reason** : In a transition series, the number of unpaired electrons increases and then decreases.
  - a) If both assertion and reason are true and reason is the correct explanation of the assertion
  - b) If both assertion and reason are true but reason is not the correct explanation of assertion
  - c) If assertion is true, but reason is false,
  - d) If both assertion and reason are false
- 5) ..... is used as an antitumor drug in cancer treatment.
  - a) Sodium thio sulphate
  - b) Ca-EDTA
  - c) Cis-platin
  - d) Nickel chloride
- 6) An example of covalent crystal is
  - a) graphite
  - b) Sulphur
  - c) Diamond
  - d) rock salt
- 7) If  $[A]$  is the concentration of A at any time  $t$  and  $[A_0]$  is the concentration at  $t = 0$ , then for the first order reaction, the rate equation can be written as .....
  - a)  $k = \frac{2.303}{t} \log \left[ \frac{A}{A_0} \right]$
  - b)  $k_t = \frac{2.303}{t} \log \left[ \frac{A_0}{A} \right]$
  - c)  $k_t = \frac{2.303}{t} \log \left[ \frac{A_0}{[A_0] - [A]} \right]$
  - d)  $k_t = \frac{2.303}{t} \log \left[ \frac{A_0}{[A]} \right]$
- 8)  $Cl^-$  is the conjugate base of .....
  - a)  $HClO_4$
  - b)  $HCl$
  - c)  $ClO_4^-$
  - d)  $HClO_3$
- 9) When one coulomb of electricity is passed through an electrolytic solution, the mass deposited on the
  - a) equivalent weight
  - b) molecular weight
  - c) electrochemical equivalent
  - d) one gram
- 10) Dispersion of a solid in a liquid, a liquid in a gas and liquid in a liquid are
  - a) aerosol, emulsion, sol
  - b) Emulsion, sol, aerosol
  - c) Aerosol, sol, emulsion
  - d) Sol, aerosol, emulsion
- 11) The preparation of glycerol and soap from oils and fats is known as
  - a) esterification
  - b) saponification
  - c) hydroboration
  - d) trans esterification
- 12) The acid which reduces Tollen's reagent is
  - a) acetic acid
  - b) benzoic acid
  - c) formic acid
  - d) oxalic acid
- 13) When aqueous solution of benzene diazonium chloride is boiled the product formed is
  - a) benzyl alcohol
  - b) phenol
  - c) benzene +  $N_2$
  - d) Phenyl hydroxylamine

Kindly send me your answer keys to us - padasalai.net@gmail.com

