Tsi12C

Tenkasi District Common Examinations Third Revision Test - February 2023



15-02-2023

Standard 12

Time Allowed: 3.00 Hours

CHEMISTRY

Maximum Marks: 70

PART - A

Choose the correct answer: I.

15×1=15

- 1) In the electolytic refining of copper, which one of the following is used as anode? a) Pure copper b) Impure copper c) Carbon rod d) Platinum electrode
- 2) Assertion : Aqueous solution of potash Alum is acidic Reason : Aluminium sulphate undergo hydrolysis
 - a) Both assertion and reason are true and reason is the correct explanation of assertion
 - b) Both assertion and reason are true but reason is not the correct explanation of assertion
 - c) Assertion is true but reason is false
 - d) Both assertion and reason are false

3) Column I Column II I. Fluorine A] Identification of coloured metal ion II. Borax - B Strong Oxidizing agent III. Aluminium - C] Chalgogens present in volcanic ashes IV. Sulphur D] Most abundant element · . Ι П . IIIIV a) C D A b) B Α D C c) D C В Α D A

- 4) The catalytic behaviour of transition metals and their compounds is ascribed mainly due to
 - a) their magnetic behaviour

- b) their unfilled d orbitals
- c) their ability to adopt variable oxidation states d) their chemical reactivity
- 5) Formula of tris(ethane-1,2-diamine) iron (II) phosphate
 - a) $[Fe(CH_3-CH(NH_2)_2)_3](PO_4)_3$
- b) $[Fe(H_2N-CH_2-CH_2-NH_2)_3)](PO_4)$
- c) $[Fe(H_2N-CH_2-CH_2-CH_2-NH_2)_3](PO_4)_2$ d) $[Fe(H_2N-CH_2-CH_2-NH_2)_3]_3(PO_4)_2$

C

- 6) The number of close packed spheres is 'n'. The number of tetrahedral voids generated is equal to
 - a) n

- b) 2n
- c) 2n²
- d) 3n
- 7) If the initial concentration of the reactant is doubled, the time for half reaction is also doubled. Then the order of the reaction is
- b) one
- c) Fraction
- d) none
- 8) Dissociation constant of NH₄OH is 1.8×10⁻⁵ the hydrolysis constant of NH₄Cl would be
 - a) 1.8×10^{-19}
- b) 5.55×10⁻¹⁰
- c) 5.55×10^{-5}
- d) 1.8×10^{-5}

- Faradays constant is defined as
 - a) charge carried by 1 electron
 - b) charge carried by one mole of electrons
 - c) charge required to deposit one mole of substance
 - d) charge carried by 6.22×1010 electrons
- 10) The blue colour of water in the sea is due to
 - a) Scattering of blue light by water molecules
 - b) Reflection of blue sky by sea water
 - c) Refraction of blue light by the impurities in sea water
- d) Adsorption of other colours, except the blue colour by water molecules 11) HOCH₂CH₂-OH on heating with periodic acid gives
- a) methanoic acid
- b) glyoxal
- c) methanol
- d) CO₂

Kindly send me your questions and answerkeys to us: Padasalai.Net@gmail.com

c) Describe adsorption theory of catalysis.

d) What is vulcanization (cross linking) of rubber?

c) Write short note on peptide bond?

38) a) Carbylamine reaction

(OR)

b) Preparation of Urotropine

d) Explain tyndall effect.

(OR)