

XIIRKN16

11020-X

CHEMISTRY

(Long Answer Type Questions)

1. What are Colligative Properties? Explain any two of them.

Or

Explain the following term:

(a) Molarity (b) Molality (c) Mole-fraction (d) Normality (e) PPM

2. Define Corrosion. What are C various factors affecting corrosion? How can it be prevented?

Or

Explain the construction and working of a Galvanic cell.

3. Explain the manufacture of sulphuric acid by contact process. Give its two important properties. <https://www.jkboseonline.com>

Or

Give the electronic configuration of group 16 elements. Why oxygen shows anomalous behaviour?

4. How will you convert exthanol into:

(i) Ethyl alcohol

(ii) alcohol

(iii) Cyanolydrin

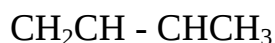
(iv) Ethanal oxime

(v) x-Hydroxybutanal

Or

How will you prepare acetic acid from:

(i) $\text{CH}_2\text{CH}_2\text{OH}$ (ii) $\text{CH}_2\text{COOC}_2\text{H}_3$ (iii) CH_2CN (iv) CH_2MgBr and



(Short Answer Type Questions)

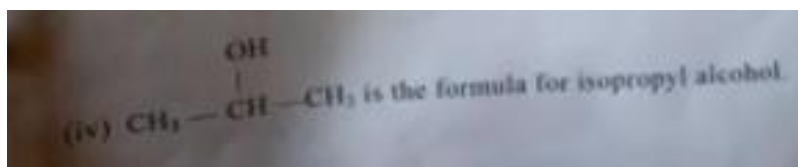
5. Explain Frankel defect in crystals
6. What are the factors on which the rate of a reaction depends?
7. Discuss electrophoresis
8. Explain lanthanide contraction
9. What are the diseases caused due to deficiency of vitamin A.D. and C?
10. What is meant by unidentate and bidentate ligands Give examples.
11. Draw the structures of three Oxo-acids of phosphorus
12. What is an esterification reaction?

(Very Short Answer Type Questions)

13. Define half life period.
14. Give the mechanism of reactions in haloalkanes.
15. Define calcination and roasting.
16. Why do d-block elements form coloured ions?
17. What are the effects caused by Freons on the environment?
18. Give an example for 1° , 2° , 3° , amines.
19. Why are artificial sweetening agents needed? Give two examples.
20. What is natural rubber?

(Objective Type Questions)

21. (i) No. of atoms per unit cell for cubic unit cell is.....
- (ii) The Phenomenon of osmosis was reported by.....
- (iii) Sulphide ores are concentrated by gravity process. (True False)



(True / False)

(v) Give the reaction of Aniline with cone, H_2SO_4 .

(vi) Give the reaction of a ketone with NH_2OH .

(vii) The human body does not produce:

- (a) Enzymes (b) DNA
(c) Vitamins (d) Hormones

(viii) Ethyl amine reacts with nitrosyl chloride to give :

- (a) Ethyl chloride (b) Ethyl nitrite
(c) Ethyl alcohol (d) Nitro-ethane

Choose the correct option:

(ix) Penicillin is:

- (a) Hormone (b) Antiseptic (c) Antibiotic (d) Lipid

(x) PVC is a polymer of:

- (a) Ethene (b) Isoprene (c) Vinylchloride (d) Neoprene

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