## **Engineering Chemistry** (2013)

VI. Choose one correct from jour unernatives in each of the following: (i) Which one is used as frother in concentration of Sulphide Ores? (a) CuSO, (b) NaCN (c) Pinc Oil (d) NaCl Ans.(c) (ii) Which is mass less (a) α ·rays (b) H-atom (c) Helium (d) Gama rays Ans.(d) (iii) Number of unpaired Valence electron in Sc(21) is (a) 01(b) 02(c) 03(d) 04 Ans.(a) (iv) The overlap of two S-Orbitals results in the formation of (a)  $\sigma$  - bond (b) = - bond (c) t - bond (d) π & σ -bond Ans.(a) (v) p" of Acid Rain due to pollution of Atmosphere is (a) > 7(b) < 7(c) = 7(d) none Ans.(b) (vi) Valcanisation of Rubber is done by (a) S (b) Br, (c) CI, (d) I, Ans.(a) (vii) Best method of disinfetion of water is (a) Bleaching Powder (b) Chlorine gas (c) O, (d) Calagon Ans.(a) (vill) Wood's metla has highest percentags of (b) Cd (c) C (d) Cu Ans.(a) (ix) Synthetic Rubber is also called (a) Plastomer (b) Elastomer (c) Creptomer (d) Blastomer (x) Standard hydrogen electrode consist electrode of

Q4.(a) Write in Few Lines about Mechanical Properties of met. als Toughness, Ductability, Malleability, Machinability Hardness.

Refers to chapter 3 Q. no. 1

Q4.(b) Define alloy. Write and Explain the purpose of making alloys with example.

Ans. Ans. Refers to chapter 3 Q. no. 3

Q5.(a) Define Plastic with a least two examples.

Ans. Refers to chapter 4 Q. no. 2

Q5.(b) Differentiate between Natural & Synthetic Rubber? Why Synthetic Rubber is very important for Transport Indus. Iry?

Ans.Refers to chapter 4 Q. no.7&8

Q6.(a) What is Pollution? Write their types?

Ans.Refers to chapter 5 Q. no. 1

Q6.(b) Give your at least on suggestion to prevent different kind of Pollution?

Ans. Refers to chapter 5 Q. no. 12

- Q7. Write short notes on any three.
  - (a) Acid Rain
  - (b) Compounding of Plastics
  - (c) Volcanisation
  - (d) Preventive Environment Activities
  - (e) Thermal Insulation

Ans(a) Refers to chapter 5 Q. noll(a)

- (b)Refers to chapter 4 Q. no. 5
- (c)Refers to chapter 4 Q. no. 9(b)
- (d)Refers to chapter 5 Q. no.12
- (e)Refers to chapter 4 Q. no.9(c)

(a) Copper

Ans.(c)

(b) Zinc

(c) Platinum

(d) Uranium

Q2.(a) Explain Hund's Rule with example: Ans. Rofers to chapter 1 Q. no.4

Q2.(b) (l) Differentiate between Electrovalent & Covalent bond. (II) Differentiate between Orbit & Orbital.

Ans. Refers to chapter 1 Q. No. 10 & 11

Q3. Write significance in few lines of conductor, insulator, Diebetrics, Electrolyte, Electrodes.