

Total Pages—4

**II—Sem/COMMON/2016(S)
(New)(BP)**

ENGG. CHEMISTRY

(Code : BST - 102)

Full Marks : 70

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

1. (a) Write the electronic configuration of aluminium and copper? 2

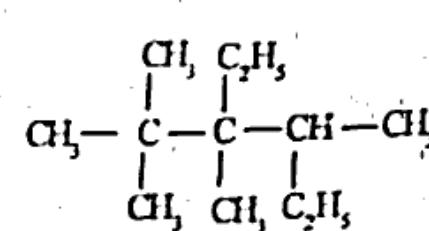
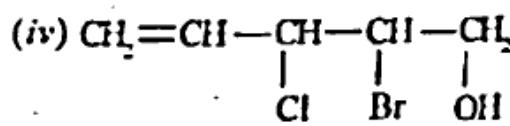
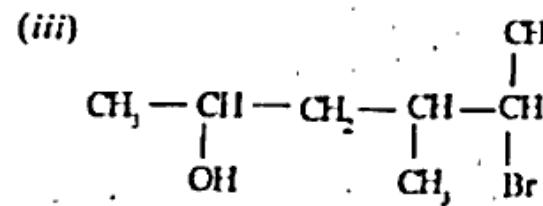
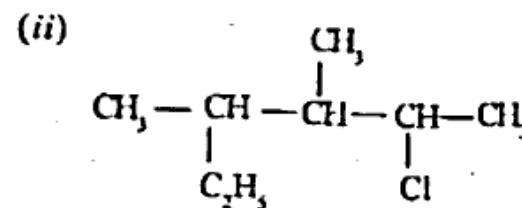
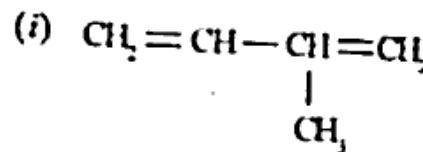
(b) Define molality of a solution ? 500 ml of a sodium carbonate solution contains 21.2 gms of solute. If the density of solution is 1.01 gms/ml then calculate the normality and molality of solution. 5

(c) What is corrosion ? Explain atmospheric corrosion with equations ? 7

2. (a) What are fluxes ? Give example of an acidic flux ? 2

(Turn Over)

(b) Write IUPAC names of following :



(3)

- (c) State and explain Faraday's laws of Electrolysis ? 7
3. (a) What is an amphoteric substance ? Give two examples of it ? 2
- (b) What is temporary hardness ? Explain with equation, how it can be removed from water ? 5
- (c) Explain, the functions of two equipments used to control air pollution ? 7
4. (a) Write the composition and uses of duralumin ? 2
- (b) What are salts ? Explain various types of salts ? 5
- (c) Give a comparison between cold lime soda and hot lime soda process. 7
5. (a) What are aromatic compounds ? Give two examples ? 2
- (b) Write the different sources of water pollution ? 5