

M.Sc. (Industrial Chemistry) Examination

Semester-IV

Paper - IC - 13: Petrochemical and Polymer

Paper Code: 3570

*April 2016*

Time: 2.30 Hours

Maximum Marks: 70

Que.-1 Give the name and uses of petroleum products by the distillation of crude oil with neat sketch. ....[14]

OR

Que.-1 Discuss the chemical obtain from ethylene. Give the manufacture process of ethylene oxide with flow sheet diagram. ....[14]

Que.-2 Give the detail accounts on chemical obtain from  $C_2$  compounds. Explain the manufacture of acetone with flow diagram. ....[14]

OR

Que.-2 What is petroleum? Discuss the searching of oil & drilling of oil in detail. ....[14]

Que.-3 What is polymerization? Give the manufacture of PVC with flow sheet diagram. ....[14]

OR

Que.-3 What is polyolefin? Give the manufacture of polythene by high pressure process. ....[14]

Que.-4 Which kinds of synthetic gas produce from natural gas? Give the manufacture of  $CO_2$ . ....[14]

OR

Que.-4 What do you mean by Fischer – Tropsch synthesis? Give synthesis of methane by Fischer – Tropsch synthesis. ....[14]

Que.-5 Give the detail account on epoxy resin and resol resin. ....[14]

OR

Que.-5 Give the manufacture of urea formaldehyde resin with its industrial application and properties. ....[14]