

April - 2015
M.Sc. (Industrial Chemistry) Examination April - April - 2015
Semester-IV
Paper - IC - 13: Petrochemical and Polymer
Paper Code: 3570

Time: 2.30 Hours

Maximum Marks: 70

Que.-1 How petroleum was formed? Discuss the searching methods of petroleum in detail.[14]

OR

Que.-1 What is oil? How oil is drilled out. Describe it with figure.[14]

Que.-2 Which chemicals are obtained from C_1 cuts? Give the manufacture of methanol with flow sheet diagram.[14]

OR

Que.-2 Discuss the chemical obtain from Ethylene. Give the manufacture process of E.O. with flow sheet diagram.[14]

Que.-3 Discuss industrial manufacture of PVC and also describe its monomer manufacture.[14]

OR

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

Que.-4 With its economical scope and limitations describe Fischer – Tropsch process for synthetic gas.[14]

OR

Que.-4 Which kinds of synthetic gas produce from natural gas? Give the manufacture of Isopropanol with neat sketch.[14]

Que.-5 Write a brief note on Epoxy resin, Novalak resin and Resol resin.[14]

OR

Que.-5 Give the detail account on Alkyd resin and Melamine formaldehyde resin.[14]

$$Y_1 = \gamma_{21} Y_2 + \beta_{11} X_1 + \epsilon_1$$

$$Y_1 = \gamma_{22} Y_2 + \beta_{22} X_2 + \beta_{32} X_3 + \epsilon_2$$

Identify both the equations and estimate the parameter.