B. Tech.

(SEM. VIII) EXAMINATION, 2006-07

POLYMER TECHNOLOGY

Time : 3 Hours] [Total Marks : 100

Note : (i) Attempt all questions.
(ii) All questions carry equal marks.

1 Attempt any four of the following :
   (a) What is protein and Polypeptides?
   (b) What is a monomer and copolymer?
   (c) What is glass transition temperature?
   (d) What is emulsion polymerization?
   (e) How are polymers made?
   (f) Write a note on classification of polymers.

2 Attempt any four of the following :
   (a) Write about raw materials for polymer based industries.
   (b) Write a note on plasticizers.
   (c) Write in brief about addition and condensation polymerisation.
   (d) What are fillers?

V-9171] 1 [Contd...
(e) What is polymer degradation?
(f) Write a note on polymer reactions.

3 Attempt any two of the following:
(a) Discuss Natural Rubber Structure and properties.
(b) Describe rubber latex production and processing.
(c) What are the uses of rubber in leather industry.

4 Attempt any two of the following:
(a) Describe polystyrene preparation.
(b) What are adhesives and their application in leather industry? What is Neoprene?
(c) Discuss poly-isoprene and nitrile rubber.

5 Attempt any two of the following:
(a) Write a note on plastics. Elastomerics and fibres.
(b) What is compounding?
(c) Discuss processing techniques of polymers.