

M.Sc. (Sem.-II) Examination
CHEP : Latex and Form Technology
May-2017

Time : 3 Hours}

[Max. Marks : 70

- Q.1 (A) Explain in details latex and its sources, chemical composition and classification with example. [7]
 OR
- Q.1 (A) Describe in details (I) Styrene Butadiene Rubber (II) Neoprene Rubber [7]
- Q.1 (B) Give details on latex concentration, preservation and its properties. [7]
 OR
- Q.1 (B) Explain in details (I) Nitrile Rubber (II) Thiokol. [7]
- Q.2 (A) Describe Neoprene rubber compounding with its essential additives. [7]
 OR
- Q.2 (A) Give short note on (I) Vulcanizing Agents (II) Micro & Nanofillers for latex. [7]
- Q.2 (B) Explain details (I) Dispersing Agents (II) Stabilizing agents for latex [7]
 OR
- Q.2 (B) Describe various types of machines used in compounding of rubbers. [7]
- Q.3 (A) Give short notes (I) Mechanical stability of latex (II) Dry Rubber Content (DRC) [7]
 OR
- Q.3 (A) What are the PU foams and give preparation, properties and application of foams. [7]
- Q.3 (B) Short notes on: (I) Rigid & Semi rigid foam with example [7]
 (II) Open & closed cell structure of polymeric foam
 OR
- Q.3 (B) Describe the foam structure & properties relationship for polymeric foams. [7]
- Q.4 (A) Short notes on: (I) Preparation method of latex dipped goods [7]
 (II) Latex cements
 OR
- Q.4 (A) Explain the Latex based emulsion paint and Electro deposition of latex. [7]
- Q.4 (B) Provide Short notes on latex based foams and latex coated fabrics & cords. [7]
 OR
- Q.4 (B) Describe latex adhesives and latex threads. [7]
- Answer the following questions** [14]
- Q.5.(A) What is difference between Latex and Natural rubber in details? [2]
- (B) Describe compounding and its importance. [2]
- (C) What is Total solid content (TSC) of latex? [2]
- (D) Describe Integral skin foam. [2]
- (E) Explain industrial uses of latex& foam technology. [2]
- (F) Give notes on latex based casting spraying [2]
- (G) Explain the Blowing agents for foams [2]