

GUJARAT TECHNOLOGICAL UNIVERSITY**B.E. Sem-Vth Examination December 2010****Subject code: 152602****Subject Name: Latex Technology****Date: 15 /12 /2010****Time: 03.00 pm - 05.30 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the wet gel strength properties of latex deposits for synthetic lattices. **07**
 (b) Give the brief description about lutoids. **04**
 (c) List the three principal facts relating to the formation of the anions of the volatile fatty acids. **03**

- Q.2** (a) 1. Give difference between two moulding methods for latex casting. **04**
 2. List the methods of producing artificial lattices and explain any one in brief. **03**
 (b) Short Note on Concentration of NR Latex by Centrifugation. **07**

OR

- (b) Write about Summary for latex compounding and processing. **07**

- Q.3** (a) Write the advantages and disadvantages of latex based adhesives relative to solution adhesive. **06**
 (b) Write about Resorcinol – Formaldehyde latex (RFL) adhesives and give its principal disadvantages. **04**
 (c) “Latex based wood adhesives has replaced traditional proteinaceous based adhesives.” Justify the Statement. **04**

OR

- Q.3** (a) List Adhesion modifiers for latex based adhesive and explain any one in brief. **06**
 (b) Explain about the difficulty occurred in Rubber to Textile adhesion. **04**
 (c) Discuss the approaches to resolve the problem arises when similar polarity between adhesives and adherends if adherends of different polarities are to be bonded together. **04**

- Q.4** (a) Explain the lick-roll method by sketching schematic diagram in detail. **07**
 (b) 1. What do you mean by Gelation? Explain it for foam rubber products. And explain about gelling agents. **05**
 2. Write about Maturation process for Foam Rubber products. **02**

OR

- Q.4** (a) Short Note on Bound-Crumb carpet underlay. **07**
 (b) Write in detail about the Moulds used for Latex Foam Products. **07**

- Q.5** (a) “In manufacturing of Dipped goods, solution technology has been replaced by latex technology” Justify the statement and explain overview of dipping process with the examples of dipped goods. **07**
 (b) Explain in detail about the latex thread manufacturing process. **07**

OR

- Q.5** (a) Short Note on Coagulant dipping. **07**
 (b) Give the difference between cut thread and extruded thread, and give the applications of both the types of threads. **07**
