

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – SUMMER 2013****Subject Code: 152602****Date: 16-05-2013****Subject Name: Latex Technology****Time: 10:30 pm to 01:00 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 Answer the following. (14)

- (i) Write the composition of fresh NR latex.
- (ii) Define the term “Dipping”.
- (iii) Write the basic difference between Latex casting and Latex dipping process.
- (iv) List the name of latex foam products.
- (v) Draw the schematic diagram for fabric saturation process by using latex.
- (vi) What do you mean by Latex thread?
- (vii) Explain the term “Synthetic lattices”.

Q. 2 (a) List the N R Latex concentration methods. Explain any one in detail. (07)**(b) Short note on Dipping System. (07)****OR****(b) Explain the Coagulant dipping method in detail. (07)****Q. 3 (a) List the basic Latex casting processes and give comparison between them. (07)****(b) Short note on Mechanical Foaming. (07)****OR****Q. 3 (a) Discuss the Latex casting process by using non – porous mould. (07)****(b) Write about Mould characteristics for foam rubber products in detail. (07)****Q. 4 (a) Give the schematic diagram for Lick roll method for latex coating and explain it in detail. (07)****(b) Explain latex thread manufacturing process in detail. (07)****OR****Q. 4 (a) Write in detail about artificial velvet. (07)****(b) Give comparison between two basic types of Rubber thread. (07)****Q. 5 (a) “Chemical composition of Synthetic lattices is simpler than N R latex” Justify the statement. (07)****(b) Describe the mutual solvent technique for production of Artificial lattices. (07)****OR****Q. 5 (a) Explain any two basic differences between N R latex and Synthetic lattices. (07)****(b) Explain the Solution Emulsification technique for preparation of Artificial lattices. (07)**