

**(Following Paper ID and Roll No. to be filled in your Answer Books)****PAPER ID :****Roll No.**

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**B.TECH.****Theory Examination (Semester-IV) 2015-16****TECHNOLOGY OF BLEACHING & MERCERIZATION****Time : 3 Hours****Max. Marks : 100**

Note: Attempt all questions. All questions carry equal marks.

1. Attempt any two parts:-
  - (a) Describe heat setting of polyester fabrics.
  - (b) Explain potting and decatizing.
  - (c) Describe degumming and weighting of silk.
2. Attempt any two parts:-
  - (a) Classify singeing and discuss any one in detail with neat diagram.
  - (b) What is desizing and how it is done? Explain.
  - (c) Describe the working of shearing machine with neat diagram.
3. Attempt any two parts:-
  - (a) Draw neat diagram of kier and describe its working.
  - (b) Describe the process of scouring with help of chemical reactions.
  - (c) Describe the scouring process of woolen fabrics.
4. Attempt any two parts:-
  - (a) Describe the action of bleaching agent with suitable example.
  - (b) How woolen fabrics are bleached with  $H_2O_2$ ? Explain.
  - (c) State merits and demerits of bleaching powder as bleaching agent.
5. Write down short notes on any two of following:-
  - (a) Test of loss of weight during desizing and scouring process
  - (b) Mercerization and its test.
  - (c) Chainless mercerizing machine

