

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012**

**Subject code: 172803****Date: 01/01/2013****Subject Name: Technology of Finishing-II****Time: 10.30 am - 01.00 pm****Total Marks: 70****Instructions:**

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

- Q.1** (a) Answer the following **objective** questions. **10**
- i. Dielectric property of water is employed in \_\_\_\_\_ drying technique
  - ii. \_\_\_\_\_ fibres swell to greater extent when soaked in water
  - iii. Heat transfer in cylinder drying takes place through \_\_\_\_\_.
  - iv. The fabric lustre is mainly due to \_\_\_\_\_ reflection of light
  - v. \_\_\_\_\_ calendering produces fine lines in fabric for lustre.
  - vi. “Selsine device” is an important accessory in \_\_\_\_\_ machine.
  - vii. What is bowing in fabric?
  - viii. Differentiate between milling and felting.
  - ix. \_\_\_\_\_ heating media is used in Rigmel finish.
  - x. Name any two troughless padding mangles.
- (b) Explain the effect of heat setting of polyester on dyeing. **04**
- Q.2** (a) Discuss the object and techno-physical aspects of beetling process. **06**
- (b) Describe the working and applications of any two universal calendars. **08**
- OR**
- (b) Describe with neat diagram the working of cylinder dryer. **08**
- Q.3** (a) Describe the influence of various factors on heat setting of polyester. **10**
- (b) Describe the book fold method of creping. **04**
- OR**
- Q.3** Describe Elaborately significance, construction and working of stenters range with principles involved. **14**
- Q.4** (a) Enumerate the methods to make cotton unshrinkable. Elaborate any one in detail. **07**
- (b) Write in detail about numerous ordinary mangles with the mechanism of padding involved. **07**
- OR**
- Q.4** Discuss various technological aspects involved in different chemical processes to make woolen fabrics non-shrink. **14**
- Q.5** (a) Enlist various damping machines. Depict their construction and working in detail with neat sketch. **10**
- (b) Write a note on Brushing of textiles. **04**
- OR**
- Q.5** (a) Differentiate between raising and sueding. Discuss about card-wire raising machines as well as sueding machine with their sketch showing construction and working. **10**
- (b) A cotton fabric is to be padded with 3% Hydrogen peroxide (o.w.f) at 90% expression. Estimate the concentration of the pad liquor in gpl. **04**

\*\*\*\*\*