

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII • EXAMINATION – WINTER • 2014****Subject Code: 172803****Date: 04-12-2014****Subject Name: Technology of Finishing - II****Time: 10:30 am - 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** (a) Answer the following OBJECTIVE questions: **10**
- i. Dry heat setting is carried in ----- machine.
 - ii. Relaxation of highly twisted fibres results in ----- formation.
 - iii. Multiple layers of fabric are processed in ----- calender.
 - iv. Rigmel finish is associated with ----- shrinkage.
 - v. Water acts as a ----- during aqueous heat setting of nylon.
 - vi. Give one example of convection dryer.
 - vii. Haubold mangle is ----- kind of padding mangle.
 - viii. Correlate the effect of moisture content on raising.
 - ix. Differential frictional effect is associated with ----- fibres.
 - x. Loose fibres are removed in ----- process.
- (b) Explain the mechanism of heat setting. **04**
- Q.2** (a) Discuss different milling processes for woolen textiles. **07**
- (b) Describe with neat diagram the working of cylinder dryer. **07**
- OR**
- (b) Describe various technical aspects of creping. **07**
- Q.3** (a) Explain the mechanism of compressive shrinkage. Describe with neat diagram the working of any one method. **10**
- (b) A cotton fabric is to be padded with 3% Hydrogen peroxide (o.w.f) at 90% expression. What should be the concentration of the pad liquor in gpl? **04**
- OR**
- Q.3** (a) Enlist different factors influencing heat setting of polyester fabric. **07**
- (b) Discuss about friction and chasing calendering in detail. **07**
- Q.4** (a) Discuss the entry of fabric in stenters with the accessory needed to attain the uncurled fabric width and appropriate length. **07**
- (b) Discuss the object and techno-physical aspects of calendering. **07**
- OR**
- Q.4** (a) Describe about numerous ordinary mangles with the mechanism of padding involved. **07**
- (b) Enlist various damping machines. Describe their construction and working in detail. **07**
- Q.5** (a) Write a note on various types of stenters ranges with their manufacturers. **10**
- (b) Describe the book fold method of creping. **04**
- OR**
- Q.5** (a) Differentiate between raising and sueding. Discuss about card-wire raising machines with their sketch showing construction and working. **07**
- (b) Describe the working and applications of decatizing machine. **07**
