

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEM-V Examination-Nov/Dec.-2011

Subject code: 152905

Date: 03/12/2011

Subject Name: Textile Manufacturing Processes

Time: 2.30 pm -5.00 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) Write objects and working principle of Ring Frame. **07**
(b) Show passage of material in Rotor Spinning machine. **07**

- Q.2** (a) Write in brief about Opening unit, Rotor and Navel of Rotor Spinning. **07**
(b) Compare yarn characteristics of Rotor and Ring spun yarn. **07**

OR

- (b) Explain in detail about DREF – 1 & DREF – 2. **07**

- Q.3** (a) With neat sketch, discuss Air jet spinning process. **07**
(b) Define – Weaving mechanism. Also show passage of warp through a loom. **07**

OR

- Q.3** (a) Explain Primary, Secondary and Auxiliary motions of Plain loom. **07**
(b) Show different type of Weaves with brief explanation. **07**

- Q.4** (a) What is Knitting? Discuss Weft knitting machine with suitable diagram. **07**
(b) Define – Nonwoven fabric. Also write applications of Nonwoven fabric. **07**

OR

- Q.4** (a) What are different Non woven fabric forming techniques? Explain any two techniques in detail. **07**

- Q.4** (b) Explain Air-jet and Water-jet weft insertion systems with suitable diagram. **07**

- Q.5** (a) With neat sketch, show layout of Garment manufacturing process. **07**
(b) What is Spreading? Also explain types of Spread. **07**

OR

- Q.5** (a) Write in detail about different methods of Cutting. **07**
(b) Explain in brief about Seams and Stitches. **07**
