

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – SUMMER • 2014****Subject Code: 152905****Date: 24-06-2014****Subject Name: Textile Manufacturing Processes****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)** Explain briefly the principles of Ring spinning and Rotor spinning and compare the properties of the yarn spun out of these two techniques. **07**
- (b)** Discuss the advantages and disadvantages of non-woven fabrics. **07**

- Q.2 (a)** Write on the various tests conducted on fabric to assure its properties before it is utilized in the garment manufacturing industry. **07**
- (b)** Explain the principle and working of shuttleloom and state its limitations, if any. **07**

OR

- (b)** Explain the working of rapier loom and discuss how weft insertion by rapier is different from the other weft insertion techniques. **07**

- Q.3 (a)** Write on the factors influencing the quality of the yarn spun utilizing different techniques. **07**
- (b)** Compare the properties of woven and knitted fabric. **07**

OR

- Q.3 (a)** Explain the principle and working of Airjet spinning machine with a neat sketch. **07**
- (b)** Differentiate between warp and weft knitting. **07**

- Q.4 (a)** Discuss about the factors resulting in stoppage of loom and how it can be taken care of to achieve maximum efficiency during weaving. **07**
- (b)** Write on the various techniques utilized for manufacturing of non-woven fabric. **07**

OR

- Q.4 (a)** Explain the working of a projectile loom. **07**
- (b)** Write on the various stages involved in manufacturing of non-woven fabrics. **07**

- Q.5 (a)** State the objectives of marker planning and explain the requirements in marker planning process. **07**
- (b)** Discuss about the various quality check points considered at different stages of manufacturing of garment. **07**

OR

- Q.5 (a)** Define seams and stitches and discuss about the various defects generated in garment during sewing process. **07**
- (b)** Write on the various finishing processes carried out on garment. **07**
