

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE SEM-VIII Examination May 2012****Subject code: 182903****Subject Name: Technical Textiles II****Date: 14/05/2012****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) Write on specialized areas of application of Medical textiles. **07**  
(b) Discuss the types and application of Geosynthetics. **07**
- Q.2** (a) Write a short note on textiles used in passenger cars. **07**  
(b) Discuss the main functional criteria for textiles in defense. **07**
- OR**
- (b) Discuss the application of nanotechnology in textiles. **07**
- Q.3** (a) State the requirement in properties of the fibres used in medicine and surgery and write on the recent developments in fibres used in medical textiles. **07**  
(b) Write a short note on textiles used in other road vehicles. **07**
- OR**
- Q.3** (a) Discuss in detail Extracorporeal devices. **07**  
(b) Discuss the main technical requirements in fibres used in textiles for transportation. **07**
- Q.4** (a) Discuss the factors considered when choosing or designing a fabric for particular application of Geotextiles. **07**  
(b) Write a short note on Ballistic protective material. **07**
- OR**
- Q.4** (a) Discuss the essential properties required in Geotextiles. **07**  
(b) Discuss the factors considered when selecting a fabric for Protective textiles. **07**
- Q.5** (a) Write a short note on Conveyor belts. **07**  
(b) Discuss the special features of Power transmission belts. **07**
- OR**
- Q.5** (a) Name the different textiles materials used in the various industries and discuss in details any one application. **07**  
(b) Discuss the future prospects in the field of Technical textiles. **07**

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