

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (OLD) - EXAMINATION – SUMMER 2017

Subject Code:182903

Date:02/05/2017

Subject Name: Technical Textiles II

Time:10:30 AM to 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) Define the terms: i. Geosynthetics ii. Separation function of geotextile. **06**
(b) Give an overview of Implantable materials. **08**
- Q.2** (a) Discuss the application of geotextiles as reinforcement in soil. **08**
(b) Discuss applications of Wool fibre in Medical textiles. **06**
- OR**
- (b) Define: Protective Clothing. State the characteristics of Protective textiles. **06**
- Q.3** (a) Passengers register an airline identity within cabin environment through the stimuli of a number of factors in which textiles have the greatest part to play. Justify. **07**
(b) Why Nylon 6,6 is most preferred fibre to be used for the production of air-bags, Justify. **07**
- OR**
- Q.3** (a) Write in brief about “Cosmeto-textile”. **07**
(b) Discuss the use of nanotechnology for imparting anti-bacterial and wrinkle resistance property to textiles. **07**
- Q.4** (a) With the help of neat diagrams, explain any two types of special purpose Conveyor belts. **07**
(b) State important properties and applications of Carbon reinforced plastics. **07**
- OR**
- Q.4** (a) What are Industrial fabrics? Explain different types and structures of industrial fabrics used for the Shoe liners with the help of neat diagrams. **07**
(b) Discuss about application of Disposable nonwoven polypropylene fabrics as Hospital textiles. **07**
- Q.5** (a) Discuss in brief about Activated Charcoal Cloth (ACC) wound dressings. **07**
(b) Discuss about general types of Woven Geotextiles. **07**
- OR**
- Q.5** (a) Discuss in brief about Sutures. **07**
(b) What is Tissue engineering? Discuss advances in tissue engineering technology. **07**
