

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 2182903

Date: 04/05/2017

Subject Name: Technical Textile-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: Protective Clothing. **04**
(b) Enlist the purposes for which protective clothing is used in various industries. **03**
(c) Write short note on: Bullet Proof vest. **07**
- Q.2** (a) What is meant by Ideal wound dressing? What are the expectations from it? **07**
(b) Write short note on: Copper treated soft fibres & their applications. **07**
- OR**
- (b) Write short note on: Surgical Gowns. **07**
- Q.3** (a) Compare conveyer with power transmission belt. With the help of neat diagrams explain different structures of belts. **07**
(b) Discuss in detail about different types of absorbent products for Personal health & hygiene. **07**
- OR**
- Q.3** (a) Nanotechnology holds an enormously promising future for textiles. Justify. **10**
(b) Write in brief about 'Cosmeto-textiles'. **04**
- Q.4** (a) Discuss application areas & pre-requisites of Automotive textiles. **08**
(b) Discuss in brief about textile articles being used in Air-crafts. **06**
- OR**
- Q.4** (a) Explain in detail the concept of Tissue engineering. **07**
(b) Why Nylon 6,6 is most preferred fibre to be used for the production of air-bags. Justify. **07**
- Q.5** (a) Discuss the environmental application of nonwovens. **07**
(b) Discuss the filtration function of Geotextiles. **07**
- OR**
- Q.5** (a) Discuss the key design properties & testing standards of Geotextiles. **07**
(b) Explain in detail different materials used as orthopedic & cardiovascular implants. **07**
