

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – III • EXAMINATION – WINTER • 2013****Subject code: 732502****Date: 28-11-2013****Subject Name: Technical Textile****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) Enlist various methods of laying the fibers for making nonwovens. Write briefly on air laying and wet laying. **07**
(b) Which processes are to be carried out and the technical textile products available from monofilament and tape/film? **07**
- Q.2** (a) Write on distinctive features of the cards used for producing batt to be used for making nonwoven fabric. **07**
(b) Which are the distinct features of needle punching process? **07**
- OR**
- (b) With the help of a chart write on product and processes for making technical textiles. **07**
- Q.3** (a) With neat sketch explain spun laying process for forming non woven fabrics. **07**
(b) Write a short note on use of Glass fiber in various applications of technical textiles. **07**
- OR**
- Q.3** (a) Which are the considerations for selecting particular fabric design for solid-liquid filter fabrics? **07**
(b) Write short note on following **07**
(i) Stitch Bonding
(ii) Hydroentanglement
- Q.4** (a) With reference to water proof breathable fabric, write on hydrophilic coating as one of the processes. Also write on ways of applying coating to the fabric for the same purpose. **07**
(b) Explain cleaning mechanism with reference to reverse air and pulse jet cleaning. **07**
- OR**
- Q.4** Write in detail on use of geotextiles for separation purposes. **14**
- Q.5** (a) Write a short note on face masks and antimicrobial dressing. **07**
(b) Write a short note on various applications of protective textiles in defense. **07**
- OR**
- Q.5** (a) Write in detail on use of agrotexiles for various types of nets. **07**
(b) Write briefly on application of textile as medical implants. **07**
