Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016 Subject Code:2162904 Date: 09/05/2016 Subject Name: Technical Textile-I 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. 0.1 (a) With the help of neat sketch, explain how transfer coating is done. 07 With the help of neat sketches, explain how the dry laid webs are manufactured. **(b) 07** Discuss in detail the different weaves used in manufacturing of Technical 0.2 07 (a) Textiles. Give the significance of using the same. Write a brief note on "Coating Materials". 07 Discuss the applications of knitted technical fabrics in detail. **(b)** 07 Discuss any two applications of nonwoven medical textiles. 0.3 (a) 07 Discuss the uses of Polyester Fibres in Technical Textiles. **(b)** 07 Discuss any two applications in the area of agrotech. 07 **Q.3** (a) With the help of neat sketch, explain Extrusion Coating. **07 (b)** Write a brief note on "Wet Processing of Technical Textiles" 0.4 07 (a) **(b)** Discuss the factors affecting the effectiveness of coating material in a given 07 fabric. OR Write a brief note on "Textile Reinforced Composites". **07 Q.4** (a) Give the classification of nonwovens based on their structure. **(b)** 07 0.5 With the help of neat sketch, explain the manufacturing of Melt Blown Web. 07 (a) Write a brief note on "Stitch Bonded Nonwovens". **(b)** 07 **Q.5** Write a brief note on "Wet Laid Nonwovens". **07** (a) **(b)** With the help of neat sketch, explain the principle of needle punching. 07
