

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 2142806

Date: 26/05/2017

Subject Name: Textile Manufacturing - 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.

	MARKS
<b>Q.1 Short Questions</b>	<b>14</b>
1 Define - Shed.	
2 State full name of EPI.	
3 The process for interlacement of warp and weft is known as _____.	
4 Define - Shuttle.	
5 _____ process apply protective layer on yarn.	
6 In knitted fabric, the horizontal row is known as _____.	
7 In knitted fabric, the vertical row is known as _____.	
8 Beam warping is practiced for grey or mono colored warps of very _____ lengths.	
9 Define - Warp.	
10 Define - Weft.	
11 Define - Nonwoven fabric.	
12 _____ refers to the order of interlacing of the warp and weft.	
13 Define – Seam.	
14 Picking is mechanism of Knitting. – True or False?	
<b>Q.2 (a) Give classification of Weaving machines.</b>	<b>03</b>
<b>(b) Explain passage of material in Plain power loom.</b>	<b>04</b>
<b>(c) Discuss primary, secondary and auxiliary motions of Plain power loom.</b>	<b>07</b>
<b>OR</b>	
<b>(c) Explain in detail about Pirn winding system.</b>	<b>07</b>
<b>Q.3 (a) Discuss different Types of Weaves.</b>	<b>03</b>
<b>(b) Explain Mechanical stop motion of warping process.</b>	<b>04</b>
<b>(c) Explain in detail about sizing ingredients and preparation of Size paste.</b>	<b>07</b>
<b>OR</b>	
<b>Q.3 (a) With neat sketch, show Climax dobby.</b>	<b>03</b>
<b>(b) Write brief note on Jacquard.</b>	<b>04</b>
<b>(c) State various methods for production of Nonwovens and explain any one in detail.</b>	<b>07</b>
<b>Q.4 (a) Explain in detail about (i) Swivel Creel &amp; (ii) Magazine Creel.</b>	<b>03</b>
<b>(b) Show passage of material in Slow speed beam warping machine.</b>	<b>04</b>
<b>(c) Explain in detail about Sectional warping.</b>	<b>07</b>

**OR**

- Q.4** (a) Explain “Size Box”. **03**  
(b) State different creels used in Sizing. Explain any one in detail. **04**  
(c) With neat sketch, explain Multi cylinder sizing process. **07**

- Q.5** (a) State features of Super high speed beam warping. **03**  
(b) Explain Air jet weft insertion system. **04**  
(c) Discuss about (i) Warp Knitting & (ii) Weft Knitting. **07**

**OR**

- Q.5** (a) Write short note on “Marker Planning”. **03**  
(b) Explain Rapier weft insertion system. **04**  
(c) Write brief note on – (i) Spreading & (ii) Cutting. **07**

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