

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-IV(New) EXAMINATION – SUMMER 2016**

**Subject Code:2142806****Date:26/05/2016****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</b>	<b>Short Questions</b>	<b>14</b>
	1 Sectional warping is practiced for grey or mono colored warps of very long lengths. – True or False?	
	2 _____ creel occupies less floor space in sizing.	
	3 _____ refers to the order of interlacing of the warp ends and the weft picks.	
	4 Define – Reed.	
	5 What is the need of sizing process?	
	6 What is Weft?	
	7 What is the role of Expanding comb in Warping?	
	8 What is Yarn?	
	9 What is Fabric?	
	10 What is Garment?	
	11 What is Weaving?	
	12 What is Knitting?	
	13 What is Stitch density?	
	14 In knitting, _____ is a vertical column of needle loops.	
<b>Q.2</b>	(a) Discuss objects and types of Warping.	<b>03</b>
	(b) State different creels used in Warping. Explain any one in detail.	<b>04</b>
	(c) With neat sketch, explain construction and working of Slow speed beam warping machine.	<b>07</b>
	<b>OR</b>	
	(c) Discuss features of High speed and Super high speed beam warping machine.	<b>07</b>
<b>Q.3</b>	(a) Write a brief note on Sectional Warping.	<b>03</b>
	(b) State different creels used in Sizing. Explain any one in detail.	<b>04</b>
	(c) Explain construction and working of multi cylinder sizing machine.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Describe in brief about Size box.	<b>03</b>
	(b) Show passage of material through plain power loom.	<b>04</b>
	(c) Enlist primary and secondary motions of plain power loom and briefly explain function of each.	<b>07</b>
<b>Q.4</b>	(a) Give classification of weaving machines.	<b>03</b>

- (b) Discuss different types of weaves. **04**  
(c) Explain in detail about sizing ingredients and preparation of Size paste. **07**
- OR**
- Q.4** (a) Discuss principle of Single lift jacquard. **03**  
(b) Show Climax dobby with neat sketch. **04**  
(c) Define non woven fabric. Also explain in detail about Adhesive bonding technique. **07**
- Q.5** (a) Write a brief note on Needle punching process. **03**  
(b) Give comparison of warp and weft knitting. **04**  
(c) Explain different kind of weft insertion systems with suitable diagrams. **07**
- OR**
- Q.5** (a) Show sequence of operations in Garment manufacturing process. **03**  
(b) Discuss different seams in detail. **04**  
(c) Explain in detail about Warp Knitting. **07**

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