

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2017****Subject Code: 2162907****Date: 16/11/2017****Subject Name: Weaving Technology-III****Time: 02:30 PM TO 05:00PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		<b>MARKS</b>
<b>Q.1</b>	(a) Give classification of automatic shuttle looms.	<b>03</b>
	(b) Compare cop change with shuttle change looms.	<b>04</b>
	(c) With the help of neat diagrams, explain the principle of working of cop change loom in detail.	<b>07</b>
<b>Q.2</b>	(a) State the requirements for multi-shuttle weft replenishment mechanism.	<b>03</b>
	(b) State the requirements for efficient working of bobbin loader.	<b>04</b>
	(c) State the objects of weft feelers. With the help of neat diagram, explain the principle of working of two prong electric weft feeler in detail.	<b>07</b>
<b>OR</b>		
	(c) Explain the principle of working of shuttle eye and selvage weft thread cutters in detail with the help of neat diagrams.	<b>07</b>
<b>Q.3</b>	(a) Compare bobbin loader with loom winder.	<b>03</b>
	(b) State the requirements for efficient working of cop change mechanism.	<b>04</b>
	(c) With the help of neat diagram, explain any one non-stop type shuttle change loom in detail.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) State the objects of positive let-off mechanism.	<b>03</b>
	(b) State some of the essential requirements for weaving of blended and filament yarns.	<b>04</b>
	(c) With the help of neat diagram, explain the principle of working of any one positive / semi positive let-off mechanism in detail.	<b>07</b>
<b>Q.4</b>	(a) State the requirements for weaving of swivel fabrics.	<b>03</b>
	(b) Explain different types of ondule fabrics.	<b>04</b>
	(c) State the structure of ground fabric of Madras Muslin fabric. With the help of neat diagram, explain the mechanism used for giving lateral movement to tug reed of Madras Muslin loom.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) State the requirements for weaving of lappet fabrics.	<b>03</b>
	(b) State different methods of production of terry fabrics.	<b>04</b>
	(c) With the help of neat diagram, explain any one mechanism for production of terry fabrics in detail.	<b>07</b>
<b>Q.5</b>	(a) Give classification of jacquards.	<b>03</b>

- (b) Explain some of the important parts of jacquard with the help of neat diagrams. **04**
- (c) With the help of neat diagram, explain the principle of working of double lift double cylinder jacquard in detail. **07**

**OR**

- Q.5** (a) State the principle of working of electronic jacquard. **03**
- (b) Different types of harness ties. **04**
- (c) With the help of neat diagram, explain the principle of working of any one leno mechanism in detail. **07**

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