

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

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

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2016

Subject Code: 2162907

Date:13/05/2016

Subject Name: Weaving Technology - III

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.

- Q.1** (a) Classify automatic shuttle looms. With the help of neat diagrams, explain cop change mechanism in detail. **07**
- (b) Compare bobbin loader with loom winder. With the help of neat diagram, explain loom winder in detail. **07**
- Q.2** (a) With the help of neat diagram, explain side-sweep type of weft feeler in detail. **07**
- (b) Classify jacquards. With the help of neat diagrams, explain the mechanism provided for driving the pattern cylinder of double lift, double cylinder jacquard in detail. **07**
- OR**
- (b) State the requirements for production of terry fabrics. Explain principles of working of different types of mechanisms used for the production of terry fabrics. **07**
- Q.3** (a) Explain, in detail, any one type of shuttle change mechanism with the help of neat diagram. **07**
- (b) State the objects of weft thread cutters provided on automatic shuttle looms. With the help of neat diagram, explain temple thread cutter in detail. **07**
- OR**
- Q.3** (a) Compare lappet with swivel fabrics. With the help of neat diagram, explain the mechanism provided to give lateral movement to needle bars. **07**
- (b) State some of the advantages and disadvantages of cop change mechanism as compared to shuttle change mechanism. **07**
- Q.4** (a) State the requirements for production of leno fabrics. Explain, in detail, the working of the said mechanism with the help of neat diagram. **07**
- (b) State the objects of let-off mechanism. Explain, in detail, any one positive let-off mechanism with the help of neat diagram. **07**
- OR**
- Q.4** (a) State and explain the requirements for efficient working of cop change mechanism in detail. **07**
- (b) State the object of warp stop motion and hence explain the electrical warp stop motion, in detail, with the help of neat diagram. **07**
- Q.5** (a) State and explain important parts of jacquard and their functions. **07**
- (b) With the help of neat diagram, explain the working of single lift, single cylinder jacquard in detail. **07**
- OR**
- Q.5** (a) State the requirements for production of madras muslin fabrics. With the help of neat diagram, explain the mechanism provided to give lateral movement to tug reed. **07**

- (b) With the help of neat diagrams, explain different harness ties used in jacquard shedding mechanism in detail. 07

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