

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-V • EXAMINATION – SUMMER 2013

Subject Code: 152902**Date: 16-05-2013****Subject Name: Weaving - III****Time: 10:30 pm 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 weft feelers. With the help of neat diagram, explain two prong electrical feeler in detail. **07**
- (b) Compare bobbin loader with loom winder. Explain in detail, the working of bobbin loader with the help of neat diagram. **07**
- Q.2** (a) Give classification of shuttle change loom. With the help of neat diagram, explain stop type shuttle change loom in detail. **07**
- (b) State the requirements for production of madras muslin fabric. With the help of neat diagram, explain the mechanism for giving upward and downward movement to gauze reed. **07**
- OR**
- (b) With the help of neat diagram, explain loose reed type of terry mechanism in detail. **07**
- Q.3** (a) Compare swivel fabric with lappet fabric. With the help of neat diagram, explain the mechanism for the production of swivel fabric. **07**
- (b) State the importance of weft thread cutters provided on automatic shuttle looms. With the help of neat diagram, explain different types of weft thread cutters in detail. **07**
- OR**
- Q.3** (a) Compare weaving process used for production of fabrics using blended yarns with that for fabrics using filament yarns in detail. **07**
- (b) With the help of neat diagram, explain bartlett let-off mechanism in detail. **07**
- Q.4** (a) State and explain the requirements for efficient working of cop change mechanism in detail. **07**
- (b) State the requirements for production of leno fabric and hence explain the said mechanism in detail with the help of neat diagram. **07**
- OR**
- Q.4** (a) With the help of neat diagram, explain the driving arrangement for rotation of pattern cylinder of single lift single cylinder jacquard in detail. **07**
- (b) State the importance of ties used in jacquards. Explain in detail, most commonly used ties with the help of neat diagrams. **07**
- Q.5** (a) With the help of neat diagram, explain jacquard card cutting device in detail. **07**
- (b) State the main applications of cross border jacquards and hence explain the working of said jacquard with the help of neat diagrams. **07**
- OR**
- Q.5** (a) State and explain the important parts of jacquard shedding mechanism in detail. **07**
- (b) Compare cop change mechanism with shuttle change mechanism in detail. **07**
