GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- V • EXAMINATION - WINTER 2016

Subject Code: 152902 Subject Name: Weaving - III Time: 10:30AM – 01:00PM Instructions:

Total Marks: 70

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Q.1 (a) With the help of neat diagram, explain let-off mechanism of automatic shuttle 07 loom in detail.
 - (b) State the requirements of warp and weft for the production of terry fabrics. 07 Explain principles of working of different types of terry mechanisms in detail.
- Q.2 (a) State and compare some of the important features of cop change loom with 07 shuttle change loom.
 - (b) State the requirements for production of lappet fabric. With the help of neat diagram, explain the mechanism for giving upward and downward movement to needle bars.

OR

- (b) Compare madras muslin with swivel fabric. With the help of neat diagram, 07 explain rack and pinion type of swivel mechanism in detail.
- Q.3 (a) State and explain the requirements for the production of fabrics using blended 07 and filament yarns.
 - (b) State the requirements for efficient working of loom winder. With the help of 07 neat diagram, explain the working of loom winder in detail.

OR

- Q.3 (a) Give classification of weft feelers. With the help of neat diagram, explain 07 photoelectric type of weft feeler in detail.
 - (b) With the help of neat diagram, explain leno mechanism in detail. 07
- Q.4 (a) With the help of neat diagram, explain non-stop type shuttle change loom in 07 detail.
 - (b) State the object of warp stop motion. With the help of neat diagram, explain 07 warp stop motion in detail.

OR

- Q.4 (a) Explain, in detail, the characteristics of Double lift double cylinder jacquard.
 (b) Define casting out. Explain the same, in detail, with the help of suitable 07 examples.
- Q.5 (a) With the help of neat diagram, explain jacquard card lacing operation in detail.
 (b) State and explain , in detail, on positioning of hooks in jacquard.
 07

OR

- Q.5 (a) Explain any one jacquard card cutting device with the help of neat diagram. 07
 - (b) With the help of neat diagram, explain the working of Single lift single cylinder 07 jacquard.
