

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (NEW) - EXAMINATION – SUMMER 2016****Subject Code:2152908****Date:06/05/2016****Subject Name:Weaving Technology-II****Time:02:30 PM to 05:00 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) State the objects of negative shedding motions. With the help of neat diagram explain the working of said mechanism in detail. **07**
- (b) State the advantages of multiple box motion. With the help of neat diagram, explain Eccle's drop box motion in detail. **07**
- Q.2** (a) With the help of neat diagram, explain beat-up mechanism in detail. Also explain some of the important settings of said mechanism. **07**
- (b) Compare open shed with closed shed. Define over shedding, under shedding, early shedding and late shedding. **07**
- OR**
- (b) State the salient features of under pick mechanism. With the help of neat diagram, explain working of side lever under pick mechanism in detail. **07**
- Q.3** (a) With the help of neat diagrams, explain the working of let-off mechanism provided on plain power loom for maintaining constant and uniform tension on warp sheet during the process of weaving. **07**
- (b) State the parameters influencing the eccentricity in sley motion. Explain the method of checking the eccentricity in sley motion. **07**
- OR**
- Q.3** (a) State the object of brake motion. Explain any one brake motion in detail with the help of neat diagram. **07**
- (b) State the object of pick-at-will motion. Explain pick-at-will motion in detail with the help of neat diagram. **07**
- Q.4** (a) State the advantages of multiple-acing heald reversing motion. Explain the working of roller reversing motion used for 2 to 5 heald shafts with the help of neat diagrams. **07**
- (b) Compare 5 wheels with 7 wheel take-up motion. With the help of neat diagram, explain the working of 5 wheel take-up motion in detail. **07**
- OR**
- Q.4** (a) State the advantages of electronic dobby and hence explain the working of the same in detail with the help of neat diagram. **07**
- (b) Explain different steps followed for designing the shedding tappet for 1/2 twill weave fabric. **07**
- Q.5** (a) State the objects of temples. With the help of neat diagrams, explain the temples developed for cotton, blends and synthetic materials. **07**
- (b) With the help of neat diagram, explain the working of cross border dobby in detail. **07**
- OR**
- Q.5** (a) State the advantages of warp stop motions. With the help of neat diagram, explain the working of mechanical warp stop motion in detail. **07**

- (b)** Compare loose reed with fast reed warp protector motion. Explain loose reed warp protector motion in detail with the help of neat diagram. **07**

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