

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018****Subject Code:2152908****Date:11/12/2018****Subject Name:Weaving Technology-II****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.

**MARKS**

- Q.1** (a) Calculate the loom production in meters per shift of 8 hours, if loom runs at 180 ppm with 80% efficiency. The cloth contains 24 picks/cm. **03**
- (b) Draw a neat sketch of passage of yarn and cloth through the loom. **04**
- (c) Discuss in detail about shedding mechanism with a neat sketch. **07**
- Q.2** (a) Explain loom timing with diagram with respect to shuttle, picker and healds. **03**
- (b) Give the function of temple and back rest. **04**
- (c) Discuss in detail about construction & working of cam/tappet dobby with a neat sketch. **07**
- OR**
- (c) Describe the construction & working of loose reed motion with a neat sketch. **07**
- Q.3** (a) Give a formula for power required for picking. **03**
- (b) Explain semi-open and bottom close sheds. **04**
- (c) Give the construction and working of cone over pick motion. **07**
- OR**
- Q.3** (a) Give functions of selvedge. **03**
- (b) Explain the function of check strap and box swell. **04**
- (c) Discuss about the construction and working of Beat-up motion. **07**
- Q.4** (a) Give classification of looms. **03**
- (b) Prove that Dividend of 7 wheel take up motion is nearly 1. **04**
- (c) Explain the construction and working of side weft fork mechanism. **07**
- OR**
- Q.4** (a) Give the difference between 7 wheel and 5 wheel take-up motion. **03**
- (b) Compare loose reed and fast reed motions. **04**
- (c) Draw only a neat sketch of Eccles drop box mechanism with name of the parts. **07**
- Q.5** (a) State the objects of Let-off motion. **03**
- (b) How the box leveling device operates in drop-box mechanism? **04**
- (c) Explain the construction and working of pick-at-will motion. **07**
- OR**
- Q.5** (a) What is the role of lag-lattice in dobby? **03**
- (b) Explain the functions of picker and reed. **04**
- (c) Give the construction and working of mechanical type warp stop motion with a neat sketch. **07**

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