

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– V (New) EXAMINATION – WINTER 2019****Subject Code: 2152908****Date: 02/12/2019****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.

- Q.1** (a) Explain about Drop wires. **03**
 (b) Compare tappet and dobbie shedding mechanism. **04**
 (c) Explain negative let-off motion with the help of neat diagram. **07**

- Q.2** (a) Classify dobbie systems. **03**
 (b) What is sley eccentricity? Explain its importance. **04**
 (c) Explain the working principle of negative tappet shedding motion with neat sketch. **07**

OR

- (c) State and explain the steps involved in designing a shedding tappet for plain weave. **07**
- Q.3** (a) Draw the passage of warp through plain power loom. **03**
 (b) State the object of beat-up motion. Show four link beat up mechanism. **04**
 (c) Explain side weft fork motion with suitable diagram. **07**

OR

- Q.3** (a) Compare over pick with under pick mechanism. **03**
 (b) Draw vibrator bar type warp stop motion with neat sketch **04**
 (c) Described the cone over pick mechanism with neat sketch. **07**
- Q.4** (a) Explain importance of let off motion in weaving process. **03**
 (b) Explain about Timing diagram of loom **04**
 (c) Explain seven-wheel take-up motion in detail and explain the method of calculating Dividend of the said motion. **07**

OR

- Q.4** (a) What is drawing -in? explain briefly. **03**
 (b) Classify temples and discuss need of temples in a loom. **04**
 (c) Explain top roller heald reversing motion with suitable diagram. **07**

- Q.5** (a) Write down advantages of a cam dobbie. **03**
 (b) Compare electronic dobbie with mechanical dobbie. **04**
 (c) Explain construction and working of Climax dobbie with neat sketch. **07**

OR

- Q.5** (a) State the purpose of box motion in loom. **03**
 (b) Compare pick & pick with pick-at-will motion **04**
 (c) Discuss working of Eccle's drop box motion with help of neat diagram. **07**
