

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2018

Subject Code:2162907

Date:05/05/2018

Subject Name:Weaving Technology-III

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. What it means by “Weft Reserve”? **03**
 - b. Explain the function of Harness. **04**
 - c. Describe the working of shuttle eye cutter and temple cutter with a neat sketch. **07**
figure.
- Q.2**
- a. State the salient features of automatic loom. **03**
 - b. Describe Midget type feeler with a neat sketch. **04**
 - c. With a neat diagram explain construction & working of Single lift, Single cylinder jacquard, also give it’s features. **07**
- OR**
- c. Discuss the construction & working of Matter & Platt’s auto warp stop motion with a neat sketch. **07**
- Q.3**
- a. Explain the term-“Filamentation”. **03**
 - b. Write a note on Photo-electric feeler. **04**
 - c. Explain the construction and working of centre weft fork motion. **07**
- OR**
- Q.3**
- a. What it means by a term “Gain” for Precision coner? **03**
 - b. Explain the principle of auto negative let-off motion. **04**
 - c. Draw only a neat sketch of Automatic pirn change mechanism and give it’s important timings and settings. **07**
- Q.4**
- a. Describe about straight-through tie. **03**
 - b. Explain about the short & long interval warp tension variation factors. **04**
 - c. Discuss in detail about the construction & working of Ruti Let-Off motion. **07**
- OR**
- Q.4**
- a. What is the role of “Lingo”? **03**
 - b. Give the features of shuttle changing looms. **04**
 - c. Discuss about casting out in jacquard with your own example. **07**
- Q.5**
- a. Give the limitations of Double lift Double cylinder jacquard. **03**
 - b. Explain the working of Depth feeler. **04**
 - c. What kind of precautions are required for filament warping and sizing? **07**
- OR**
- Q.5**
- a. Briefly explain the role of Banks used in auto warp stop motion. **03**
 - b. Describe electro- magnetic warp protector motion with a neat sketch. **04**
 - c. Discuss the construction & working of Crompton & Knowvel’s auto warp stop motion with a neat sketch. **07**
