

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII (OLD) EXAMINATION – WINTER 2018****Subject Code: 172902****Date: 03/12/2018****Subject Name: Modern Weaving Technology****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 beat-up arrangement of projectile weaving machine . **07**  
 (b) Discuss about drive & let-off in context to Rapier loom. **07**
- Q.2** (a) Discuss about the Modern warping creels. **07**  
 (b) Give the features of multiphase weaving technique. **07**
- OR**
- (b) Discuss in detail about different insertion configurations on Air-jet loom. **07**
- Q.3** (a) Give various equations of drag force with reference to air jet loom. **07**  
 (b) Explain cycle of operation of projectiles on projectile loom. **07**
- OR**
- Q.3** (a) Write a note on- Projectiles. **07**  
 (b) How QSC can be exercised on modern looms? Give it's usefulness. **07**
- Q.4** (a) Explain torsion bar picking arrangement of projectile weaving machine **07**  
 (b) Write a note on- Accumulators. **07**
- OR**
- Q.4** (a) What type of water quality is used for Water-jet weaving? Explain it's picking mechanism. **07**  
 (b) Give loom-timing diagram of any two shuttleless looms. **07**
- Q.5** (a) State the features of modern sizing machine. **07**  
 (b) What measures would you like to suggest to overcome the most common problem of starting mark for air-jet denim weaving? **07**
- OR**
- Q.5** (a) Write a note on ELO and ETO. **07**  
 (b) Discuss about different types of nozzles used in air jet looms. **07**

\*\*\*\*\*