

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEMESTER VII EXAMINATION WINTER 2017

Subject Code: 172902**Date: 18-11-2017****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.

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|------------|-----|---|-----------|
| Q.1 | (a) | Explain picking arrangement of projectile weaving machine . | 07 |
| | (b) | Give loom-timing diagram of any two shuttleless looms. | 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) | Explain the formation of tucked in selvedge at sulzer loom weaving. | 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) | Discuss about modern warping creels. | 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) | Explain drive & let-off in context to Rapier loom. | 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) | Explain the shedding & beating of multiphase weaving machine. | 07 |
