

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER- I (OLD course) • EXAMINATION – SUMMER 2015

Subject Code: 712503

Date: 13/05/2015

Subject Name: Modern Weaving Technology

Time: 10:30 am to 1:00 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 the modern concept of pre-wetting at sizing process. 07
(b) Give loom-timing diagram of any shuttleless 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 causes of warp & weft breaks 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) Explain about torsion bar picking in Sulzer weaving. 07
(b) Write a note on Accumulators. 07
- OR
- Q.4 (a) What type of water 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) Explain force and acceleration of Projectile with suitable graph. 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