

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Sem-I Regular Examination January / February 2011

Subject code: 712503N

Subject Name: Modern Weaving Technology

Date: 02 /02 /2011

Time: 02.30 pm – 05.00 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 weft insertion and unwinding rate. **07**
(b) Write about loom timing diagram of any shuttle less loom. **07**
- Q.2** (a) Write a note on projectiles. **07**
(b) Explain what quality of yarn is expected for shuttle less weaving. **07**
- OR**
- (b) Write a note on multiphase weaving. **07**
- Q.3** (a) Write about the developments of Schlafhorst winding machine. **07**
(b) Write about the developments of Hacob winding machine. **07**
- OR**
- Q.3** (a) What are the objects of warping? Explain indirect warping with developments. **07**
(b) Explain sizing machine with a neat sketch. **07**
- Q.4** (a) Explain what are the requirements of accumulators. **07**
(b) Explain the principle of Sulzer Projectile Weaving. **07**
- OR**
- Q.4** (a) Explain torsion bar picking in context of Sulzer weaving. **07**
(b) Explain tucked in selvedge formation on Sulzer weaving machine. **07**
- Q.5** (a) Explain rapier drive and let off motion in context of rapier weaving machine. **07**
(b) Explain take up and starter mark prevention system in context of rapier weaving machine. **07**
- OR**
- Q.5** (a) Explain picking mechanism of water jet weaving machine. **07**
(b) Write about water specifications of water jet weaving machine. **07**
