GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–IV • EXAMINATION – WINTER 2013

Subject Code: 142803   **Date: 26-12-2013**

Subject Name: Yarn Preparation and Weaving

Time: 02:30 pm to 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)** Describe working of ordinary pirn winding machine briefly with neat sketch. **07**

(b) Explain in detail- Primary, Secondary and Auxiliary mechanisms of plain **07** power loom.

Q.2 **(a)** Enlist and explain in brief different type of yarn faults present in ring frame **07** bobbin.

(b) What are the objects of clearers? Describe in detail electronic types clearers **07** used on winding machine.

OR

(b) Describe tappet shedding mechanism with neat sketch. **07**

Q.3 **(a)** Describe construction and working of Ordinary beam warping machine briefly **07** with neat sketch.

(b) State the objects of sizing. Explain with a neat sketch passage of warp through **07** two cylinder slasher sizing machine.

OR

Q.3 **(a)** Give classification of warping processes. With neat sketch explain working of **07** sectional warping machine.

(b) Write short note on size ingredients. **07**

Q.4 **(a)** Explain working of any one Picking mechanism with diagram. **07**

(b) What are the objects of let-off mechanism? Explain with neat sketch working **07** of same.

OR

Q.4 **(a)** Describe Beat-up mechanism briefly in plain power loom with neat sketch. **07**

(b) What are the objects of take-up mechanism? Explain with neat sketch working **07** of same.

Q.5 **(a)** Explain the function of following parts of Plain power loom briefly: **07**
(i) Temples (ii) Reed (iii) Heal Frame (iv) Shuttle

(b) Enlist objects of Dobby Mechanism and explain working of any one Dobby **07** with neat diagram.

OR

Q.5 **(a)** Describe different types of Open and closed shed with neat diagram. **07**

(b) With neat sketch explain any one type of warp protector mechanisms. **07**

****