

Reg. No. :

**R 3639**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Fifth Semester

Textile Technology (Textile Chemistry)

TT 1303 — FABRIC MANUFACTURE II

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State primary and secondary motions of a loom.
2. What is loom timing diagram and state its requirement.
3. State the types of Jacquards.
4. What is swell checking?
5. Give the design features of a heald wire.
6. Define Reed count.
7. State the necessity and types of weft feelers.
8. What is weft accumulators?
9. State the pros and cons of multi phase weaving.
10. State the weaver's beam requirements of terry fabric.

PART B — (5 × 16 = 80 marks)

11. (a) With neat sketches explain the working of negative and positive cam shedding.

Or

- (b) Explain the cross border dobby and highlight pegging for 2/4 twill.

12. (a) Explain the working of a double lift double cylinder jacquards.

Or

- (b) Compare the working of cone over pick and cone under pick mechanisms.

13. (a) Write short notes on :

- (i) Types of shuttles. (5)  
(ii) Pick at will motions. (6)  
(iii) Loose and Fast reed requirements. (5)

Or

- (b) State the various types of take-up mechanisms and explain the working of any two of them.

14. (a) Explain any two shuttleless weft insertion mechanisms.

Or

- (b) Write short notes on :

- (i) Yarn quality for shuttle and shuttleless looms. (8)  
(ii) Pirn transfer mechanisms. (8)

15. (a) Explain the shedding and picking mechanisms in multi phase weaving.

Or

- (b) Explain the various warp preparation requirements of different types of yarns.