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**V 4643**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Fifth Semester

Textile Technology

TT 1303 — FABRIC MANUFACTURE II

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the types of filling insertion.
2. State the times for shedding and beat up for a loom running at 180 rpm.
3. With the help of a diagram, state the types of holes in a jacquard card.
4. What is swell checking?
5. State the selection criteria of heald wires.
6. State the requirement of a pick-at-will motion.
7. What is the necessity of weft accumulators?
8. State the types of selvages.
9. Is picking different for terny weaving and justify.
10. State prin requirement for weaving filament yarns.

PART B — (5 × 16 = 80 marks)

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

Or

- (b) (i) Explain the loom timing diagram.  
(ii) Types and selection criteria of pick finding devices.
12. (a) Explain the negative and positive let-off motions. Does the weave influences the let-off for a given mechanical set-up.

Or

- (b) Explain the seven wheel take up motion with neat diagram. Does the weave influences the take up for a given take up mechanism.
13. (a) Discuss any one type of mechanical jacquard.

Or

- (b) Explain any one type of under picking with neat sketches.
14. (a) Explain either prin or shuttle-changing mechanism.

Or

- (b) Compare the various types of shuttle-less weft insertion techniques.
15. (a) Explain the multi phase weaving technique.

Or

- (b) Discuss the mechanism of beat up for terry weaving with a suitable terry weave.