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Q 2520

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

Sixth Semester

Textile Technology

TT 341 — TECHNOLOGY OF FABRIC MANUFACTURE – II

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What do you mean by split weaving?
2. What are the preparatory requirements for high speed shuttle looms?
3. What is the purpose of three try motion?
4. What is a tucked in selvedge?
5. Give the weft insertion rates of (a) water jet loom (b) air jet looms.
6. What is the purpose of quick style change?
7. What are the precautions to be taken while weaving rotor yarns?
8. Give any two applications of non wovens.
9. Give the characteristics of cross – laid web.
10. Why is water jet loom preferred for synthetic fibres?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss the preparation and weaving of blended yarns in shuttle looms.

Or

- (b) Bring out in detail the yarn quality requirements for shuttleless looms.

12. (a) Explain how mechanical and electrical weft feeler mechanism works.

Or

(b) Explain in detail how pirn changing mechanism works.

13. (a) Discuss the techno-economics of any two shuttleless weft insertion systems.

Or

(b) Explain the mechanism of weft insertion by projectile.

14. (a) Discuss in detail the working of meltblowing process

Or

(b) Compare the parallel and cross lay web laying process.

15. (a) Write short notes on :

(i) Leno selvedge

(ii) Fringe selvedge.

Or

(b) Write short notes on :

(i) Precautions while weaving synthetic yarns

(ii) Data acquisitions systems in weaving.