M 2081

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Third Semester

Textile Technology

TT 1203 — SPUN YARN TECHNOLOGY – I

(Regulation 2004)

Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the blow room lap defects?

2. What do you mean by chute feed?

3. What do you mean by asymmetric web condenser?

4. State the different types of hooks of carded sliver.

5. What are the objectives of drawing?

6. Calculate the draft in the drawframe when the feed sliver hawk is 0.12 Ne, delivery sliver hawk is 0.115 Ne, Number of doubling is 8.

7. What are the objectives of combing operation?

8. What are the two–types of combs used in a comber machine?

9. What are the functions of builder mechanism in a speed frame?

10. Calculate the TM required to get a TPI of 2 for a roving with a hawk of 2 Ne.

PART B — (5 × 16 = 80 marks)

11. (i) With relevant sketches, explain in detail the salient features of a modern draw frame. (8)

(ii) Explain the working of autoleveller in a draw frame. (8)

12. (a) (i) Give a detailed account on the principles of opening and cleani Blewroom machinery with neat sketches.

(ii) Explain the lap regulating mechanism in blowroom, with suit diagrams.

Or

(b) With a neat sketch, explain the working mechanism of a saw ginn machine.

13. (a) With a neat material flow diagram, explain in detail the principle of carding operation.

Or

(b) With suitable diagrams, give a detailed account on the vario developments taken place in the lickerin zone of a carding machine.

14. (a) Discuss in detail, the salient features of a modern comber with respect different sections of operations.

Or

(b) What are the importance of comber preparatory processes? Explain th working of comber preparatory machines?

15. (a) With suitable diagrams, explain the various developments taken place i speed frame machines.

Or

(b) With suitable diagrams, explain the builder mechanism of a modern high speed frame machine.

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