

B 1527

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

Eighth Semester

Textile Technology

TT 053 — TEXTILE MILL PLANNING AND MANAGEMENT

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the importance of controlling in management?

2. In the order of importance, state the factors influencing the plant location.

3. What is meant by windowless building in a weaving unit?

4. What are the essential characteristics to be tested for Oil and Grease?

5. Why "TEFC" motor is recommended for Textile Mills?

6. Suggest the right illumination levels to be provided in the various departments of a composite Mill.

7. Enlist the different types of material handling equipment used in a spinning mill.

8. Give the workload norms for the different departments in a spinning mills equipped with high speed machines for processing combed counts.

9. State the benefits of costing.

10. What is the purpose of working capital?

PART B — (5 × 16 = 80 marks)

11. (i) Explain briefly the steps involved in mill planning. (10)
- (ii) Chart out the lubrication schedule for a carding machine. (6)
12. (a) (i) State the various elements to be considered in the preparation of spin plan and explain the procedure. (8)
- (ii) Explain the various factors to be considered in deciding the appropriate type of building structure for a modern spinning mills. (8)

Or

- (b) Discuss the various aspects of the "Feasibility study" in the preparation of projects. (16)
13. (a) (i) Enumerate the RH% to be maintained at various departments in a composite mill processing 100% cotton. (6)
- (ii) Enumerate the power requirements for various category of high speed machines employed in a spinning mill. (6)
- (iii) Explain the importance of inverter drive for ring frame. (4)

Or

- (b) With a neat diagram, explain the critical need of each element in a centralised humidification in system. (16)
14. (a) Discuss in detail the selection and training of operatives. (16)

Or

- (b) (i) Explain the benefits of material handling equipments for a spinning mill with conventional machinery. (6)
- (ii) Discuss the importance of material handling equipment for a state-of-the-art weaving units. (6)
- (iii) Explain the critical need to assign the optimum workload to operators. (4)

- (10) (a) (i) Explain the importance of DSCR, IRR and NPV. (6)
- (6) (ii) State the elements pertaining to balance sheet preparation. (6)
- (iii) Explain the purpose of balance sheet. (4)

Or

- (8) (b) Prepare a "Profit and Loss" account statement without indicating values, pertaining to a spinning mill and explain the purpose and benefit. (16)
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