

A 1485

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

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 purpose of coordination?
2. Enumerate the types of planning.
3. What do you mean by balancing of machinery?
4. Why layout is important?
5. What are the factors influencing the selection of oil for gear boxes?
6. State the importance of RH.% in a spinning unit.
7. List out various systems of air conditioning.
8. List out different material handling equipments used in spinning mills.
9. What do you mean by adjusted HOK?
10. What do you mean by financial management?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the scope of "planning" with respect to a spinning mill. (8)
(ii) Enumerate the factors influencing the selection of site for a composite mill of spinning, weaving and processing. (8)
- Or
- (b) Enumerate and discuss the various contents associated with feasibility report. (16)

12. (a) (i) Chart out lubrication schedule for speed frame. (6)
- (ii) Enumerate the types of lubricants with their nomenclature suitable for various machinery in a spinning mill. (10)

Or

- (b) Enumerate the lighting requirements of each department in spinning and weaving mills and discuss the importance of lighting on the performance of mills. (16)
13. (a) (i) Explain the characteristic nature of various drives employed for textile machinery. (10)
- (ii) Enumerate the power required for each category of machinery in weaving preparatory and weaving. (6)

Or

- (b) With a neat diagram explain the unitary humidification and compare this with evaporative and refrigeration type humidifiers with reference to application and effectiveness. (16)
14. (a) (i) Explain the importance of various material handling equipments used in weaving preparatory and weaving. (8)
- (ii) Enumerate the workload of operatives in spinning mills and explain the influence of work load on labour and machine productivity. (8)

Or

- (b) Discuss the selection procedures and training techniques adopted for operatives of machinery of spinning mill. (16)
15. (a) (i) Discuss the importance of balance sheet and profit and loss account for a public limited textile mill. (8)
- (ii) Discuss the procedure involved in determining the cost of sales of fabrics. (8)

Or

- (b) Prepare a "profit and loss" statement for a weaving unit comprising of preparatory and weaving. Assume suitable data wherever necessary. (16)