

Dec.-22-0339

TE-703 (Mill Management and Maintenance)

B.Tech. 7th (C3CS)

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question from each section A, B, C and D. Section E is compulsory.

SECTION - A

1. What is a plant location? How to select an ideal location for spinning industry? What is criterion for selecting suitable location and its significance for the spinning industry? (10)
2. What are the objectives of plant layout? Explain different types of layouts and also discuss layout plan for weaving industry. (10)

SECTION - B

3. Why air conditioning and humidification is required in textile industry? Explain different types of humidification system used in textile mills. (10)
4. What do you understand by machine balancing in weaving industry. For the monthly production of 10,000 meter of shirting fabric, how many air-jet looms are required? (Take other data as per your suitability). (10)

SECTION - C

5. What is costing? Discuss elements of costing and how to develop grey fabric cost sheet in weaving industry. (10)

6. What is the importance of energy consumption in textile industry? Explain the energy consumption in spinning machines. (10)

SECTION - D

7. How to measure a good working environment in weaving industry? Discuss different types of noise and remedial measures to minimize noise of different department in textile mill. (10)
8. Why machine maintenance is important in textile industry? Discuss about maintenance cost and maintenance schedules. (10)

SECTION - E

9. Attempt all questions:
 - (a) What is combined layout? Explain with suitable example.
 - (b) Define the plant layout.
 - (c) What is the importance of location in textile business?
 - (d) What is heat load?
 - (e) Discuss the importance of machine balancing in spinning industry.
 - (f) What do you understand by the overhead cost?
 - (g) Enlist any two-material handling equipment's name which is used in weaving industry.
 - (h) Importance of lighting in textile industry.
 - (i) Distinguish between product layout and process layout.
 - (j) What is TPM? (10×2=20)