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B TECH
(SEM VIII) THEORY EXAMINATION 2018-19
MILL PLANNING & ORGANIZATION

*Time: 3 Hours**Total Marks: 100***Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- a) What is 'capital expenditure'?
 - b) Explain that a part of electricity expenses in a textile mill is fixed cost.
 - c) What are the threats to be considered for a textile mill?
 - d) When is 're-layout' needed?
 - e) Define backward integration for an expansion project?
 - f) Define Debt/equity ratio.
 - g) What is 'work-in-progress'?
 - h) 'A' mill is spinning 40^s P/V yarn & 'B' mill is spinning 20^s P/V yarn. If both the mills are having same number of spindles then production of which mill will be higher?
 - i) What should be the minimum size of the main gate (entry/exit) of a textile mill?
 - j) Mention the desirable atmospheric conditions in ringframe & weaving sections.

SECTION B

- 2. Attempt any three of the following: 10 x 3 = 30**
- a) Discuss in details on 'material handling' for a textile mill.
 - b) Fire safety measures are essential for textile mill- justify.
 - c) If the production of card section of a spinning mill is 12,000 kg per day. Using appropriate assumptions find out the required number of card machines for the mill.
 - d) Define 'wage'. Write notes on different wage systems normally used.
 - e) A weaving unit is producing 90,000 Meters of grey cloth/day. Work out total number of sizing machines required.

SECTION C

- 3. Attempt any one part of the following: 10 x 1 = 10**
- a) Prepare a spin-plan for ringframe section of 25,000 spindles (use own assumptions).
 - b) Write a detailed note on costing.
- 4. Attempt any one part of the following: 10 x 1 = 10**
- a) Prepare a weave-plan for weaving section of a mill with 96 air-jet looms (use own assumptions).
 - b) What are the benefits of maintaining appropriate atmospheric condition in a textile mill?

5. **Attempt any *one* part of the following:** **10 x 1 = 10**
- a) What is 'working capital'? Describe the different components of working capital considered for textile mills.
 - b) What is the situation called if a mill is neither making loss nor earning profit? Explain in details.
6. **Attempt any *one* part of the following:** **10 x 1 = 10**
- a. How humidity is maintained in a textile mill? Discuss.
 - b. A weaving factory with 64 looms running 24 hrs a day and 350 days per annum. If each loom is connected with 9 kW load then work out the annual electricity expenses for the weaving section (take own assumptions).
7. **Attempt any *one* part of the following:** **10 x 1 = 10**
- a) The daily yarn production of a spinning mills is 20,000 kg of 32^s P/V (48/52). Using own assumptions work out the annual cost of raw material of the mill.
 - b) Write a detailed note on layout of textile mills.