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**B TECH**  
**(SEM VIII) THEORY EXAMINATION 2017-18**  
**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 are the major reasons of utilization losses in Ringframe section?
  - b) Give few examples of 'Fixed Cost' in a textile mill.
  - c) Define 'break-even' situation of a textile mills
  - d) The packed yarn of a cotton spinning mill has 5% moisture regain – is it desirable?
  - e) What is an expansion project with forward integration?
  - f) What debt/equity ratio?
  - g) Why working capital is needed for a textile mill?
  - h) 'A' mill is spinning 40<sup>s</sup> Ne cotton combed yarn & 'B' mill is spinning 40<sup>s</sup> Ne P/V yarn. Which mill will require more investment?
  - i) Define 'piece rate wage' system
  - j) Why is raw material godown located away from the manufacturing shed of a textile factory?

**SECTION B**

- 2. Attempt any three of the following: 10 x 3 = 30**
- a) An air-jet weaving unit with 48 looms is producing grey sheeting fabric. Taking your own assumptions, work out the total production of cloth per day?
  - b) Write a detailed note on 'fire hazards' in a textile mill.
  - c) What is 'time rate' wage system and describe its advantages.
  - d) A spinning mill is producing 20,000 kg of cotton yarn per day. If the yarn realization is 87% and raw cotton price is Rs 105/- per kg then what will be mill's annual cotton cost?
  - e) Single story building is preferred for textile mills- write a detailed note.

**SECTION C**

- 3. Attempt any one part of the following: 10 x 1 = 10**
- a) What is costing? Describe different cost heads of a textile mill.
  - b) Why costing is needed? Write the different costing techniques used.
- 4. Attempt any one part of the following: 10 x 1 = 10**
- a) Discuss the Geographical factors to be considered for deciding the site of a new textile mills.
  - b) What are the advantages to locate a textile mill in a textile park?

**5. Attempt any *one* part of the following: 10 x 1 = 10**

- a) Describe the issues related to different types of hazards for a textile mill.
- b) Explain the safety norms to be followed for the construction of buildings for a textile mill

**6. Attempt any *one* part of the following: 10 x 1 = 10**

- a) Write a detailed note on 'humidification for a spinning mill'.
- b) A weaving factory having 64 looms producing 120" width cloth. Assuming own data, work out the daily warp yarn requirement.

**7. Attempt any *one* part of the following: 10 x 1 = 10**

- a) In a spinning mill to produce 20<sup>s</sup> Ne cotton yarn of 20,000 kg per day. Calculate the number of ringframe machines are to be installed (assume appropriate data)
- b) What is the difference between 'absolute humidity' and 'relative humidity'? In weaving section, what will be the impact of improper humidity?