THE TEXTILE ASSOCIATION (INDIA)
GMTA EXAMINATION - 2019
SECTION - E  PAPER:E.1
INDUSTRIAL ENGINEERING AND MILL MANAGEMENT

Date: 24.12.2019 Marks: 100 Time: 10.00am to 1.00pm

Instructions:
1. Attempt any six questions out of which Q. 1 is compulsory.
2. Answer each next question on new page.
3. Figures to the right in the bracket indicate full marks.
4. Illustrate your answer with sketches and flow charts wherever necessary.
5. Use of non-programmable electronic pocket calculator is permissible.
6. Mobile and any other communication devices are not allowed in the examination hall.
7. Assume suitable data wherever necessary.

Q1 Write Short Notes on any five of the following
   a. Industrial Engineering in deciding loom shed performance
   b. Value adding and cost adding elements in a textile mill.
   c. Factors influencing the designing of humidification plant for a weaving shed
   d. Competency levels required for a job.
   e. Suitability study to improve loom performance.
   f. Elements of costs.

Q2 a. What data are needed for working out cost in a sizing operation?
     b. How steam consumption can be reduced in a sizing operation?

Q3 a. How do you work out workloads of a weaver?
     b. What are the factors responsible for loss in the weaving efficiency?

Q4 a. What is Material Management in a Textile Mill?
     b. What are the essential considerations for deciding Material Handling?

Q5 a. What is a Project Report? Where it is used?
     b. What are essential components of a Profit and Loss Account?

Q6 a. Explain the applicable factory laws for a Textile Mill.
     b. Explain salient features of ESI Act.

Q7 a. Explain different approaches in costing.
     b. What is the difference between Historical Costing and Standard Costing?

Q8 a. Explain the role of relative Humidity in different operations of a textile mill.
     b. What steps do you suggest to reduce the cost of humidification in a spinning mill?