THE TEXTILE ASSOCIATION (INDIA)
GMTA (Revised) Examination - 2017
Section – E, Paper – E1
Industrial Engineering and Mill Management.

Date 26 Dec 2017  Marks: 100  Time 10.00 am to 1.00 pm

Instructions:
1. Answer any six questions out of which Question No 1 is compulsory.
2. Answer each next main question on a new page.
3. Figure to the right indicate full marks.
4. Illustrate your answers with sketches and flow chart wherever necessary.
5. Use of non-programmable electronic pocket calculator permitted.
6. Mobile and any other communication devices are not allowed in examination hall.
7. Assume suitable data wherever necessary.

Q1 Write Short Notes on any five of the following  20
   a. Plant layout and material handling.
   b. Workloads and Work norms.
   c. Total Productive Maintenance.
   d. Issues from stores to control inventory.
   e. Snap study to improve loom performance.
   f. Avoiding training to increase productivity.

Q2
   a. What data are needed for working out cost in a weaving operation?  16
   b. How use of Activity Based Costing helps in determining costs while weaving fancy fabrics?

Q3
   a. How do you work out workloads of a winder?  16
   b. What are the factors responsible for losses in winding efficiency?

Q4
   a. What is the role of maintenance in winding?  16
   b. What are the essential check points for maintaining a winding machine?

Q5
   a. What is a Balance Sheet? Where it is used?  16
   b. What is Marginal Money and where it is used?

Q6
   a. What is Factory Act? What is its use for a textile mill?  16
   b. What is social security of workmen in textile mills?

Q7
   a. Explain the role of Industrial Engineer in a weaving factory.  16
   b. How Motion study differs from Time study?

Q8
   a. What are the needs for automation in a textile mill?  16
   b. Material handling is considered as a necessary evil. Why?