THE TEXTILE ASSOCIATION (INDIA)
GMTA (Revised) Examination - 2016
Section - E, Paper - E1
Industrial Engineering and Mill Management

Date: 26.12.2016          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
   a. Selection of site for textile mills
   b. Estimation of workloads and fixation of work norms.
   c. Minimum wages Act
   d. Stacking in stores
   e. Lighting requirements for fabric inspection.
   f. Textile mill building structure
   g. Identification of training needs
   h. Cost of material handling

Q2
   a. What are the different approaches of costing practiced in a spinning mill? Give examples.
   b. How do you differentiate Activity Based Costing with Marginal Costing?

Q3
   a. Explain the method of working out workloads of a ring frame sider.
   b. What are the factors responsible for losses in efficiency?

Q4
   a. What is the role of maintenance in weaving and weaving preparation?
   b. What are the essential check points for maintaining a sizing machine?

Q5
   a. What is a Profit and Loss Account? How it differs from Balance Sheet?
   b. What is the difference between Working Capital and Capital Expenses?

Q6
   a. What is Industrial Disputes Act? How it differs from Standing Order?
   b. Which are the Acts addressing the social security of workmen in textile mills?

Q7
   a. Explain the term Scientific Management. What are its advantages?
   b. What is Time and Motion study?
Q8  

a. Discuss the merits and demerits of automatic doffing in ring frames in Indian condition.

b. What factors you consider while designing a material handling system for a textile mill?