THE TEXTILE ASSOCIATION (INDIA)
GMTA Examination - 2018
Section - D, Paper - D - 4
Process Control & Quality Management in Fabric Manufacturing.
Marks – 100

Date 25 Dec 2018

Time 02.00 PM to 5.00 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. Length variations in cones – Possible causes.
   b. Effect of weft package quality on loom performance.
   c. Process parameters affecting productivity in beam warping.
   d. Role and scope of process control in cone winding.
   e. Types of humidification controls in weaving.
   g. Properties of good size beam.
   h. Classification of yarn faults and its effect on fabric quality.

Q2
   a. What are the normal faults in cones? Explain the reasons.
   b. How do you monitor the efficiency of Cone Winding?

Q3
   a. Explain the requirements of a good Warping beam.
   b. How warping beam quality influences Sizing quality?

Q4
   a. Explain the importance of control points and check points?
   b. What are the essential check points for rapier loom?

Q5
   a. What are the different maintenance activities in a Sizing machine?
   b. How will you measure the effectiveness of maintenance in Sizing?

Q6
   a. What are the advantages and disadvantages of Block Creeling in Warping?
   b. What are the normal quality complaints of a Warp beam?

Q7
   c. How do you fix norms for knitting efficiency?
   d. What are avoidable and unavoidable wastes in knitting? Give examples.

Q8
   a. What is the requirement of a good pirn in shuttle looms?
   b. What are the normal quality issues in a pirn winding?