THE TEXTILE ASSOCIATION (INDIA)
GMTA (REVISED) EXAMINATION – 2016
SECTION – D PAPER – SOD.3
QUALITY & ENVIRONMENT SYSTEM IN YARN MFG.

Date: 30.12.2016
Marks: 100
Time: 02.00 pm to 05.00 pm

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 indicate full marks
4. Illustrate your answers with neat sketches & 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

Q1. Choose the appropriate answer from the multiple choices in the following:

A. The correct sequence in Deming's cycle is
   a. PCDA b. PCAD c. PDCA d. All of these

B. The type of companies in which Supply-chain strategy concepts are applicable

C. 5S checklists should be made to collect the information of
   a. Work duty task times b. Image of work areas c. Red-tag item location
d. All of these

D. How many steps are there in 5S implementation?
   a. 10 b. 4 c. 5 d. 2

E. 5S visual communication provides the advantage of
   a. Entertainment of personnel b. Avoiding OSHA violations
c. Informing personnel with critical facility information d. It makes a facility look
   clean and efficient

F. Standardized color-coding helps visual communication by means of
   a. Helping facilities improve cleanliness b. Adding efficiency by appropriately
directing personnel c. Building team work amongst the personnel d. Giving a facility a more professional look

G. During Shine, you and your coworkers focus on
   a. Start following scheduled work area cleaning b. Begin documenting visual
communication needs
c. Establish a red tag zones d. Initiate shadow labeling for tool storage.

H. Achievement banners help personnel
   a. By displaying documented issue to motivate change b. By displaying 5S duty task times to motivate change
c. By displaying current status of combined 5S achievement
d. By displaying individual worker issues

I. Operations and supply chain management includes all of the following activities except.
   a. Capacity planning b. Inventory management
   c. Forecasting d. Purchasing

J. The type of process, in process flowchart, represented by the diamond symbol is
   a. Decision node b. Transportation c. Value-added process
d. Starting or ending point
Q2.
   a. What are the control points in Carding? Briefly discuss effect of each on quality of the output.
   b. Briefly discuss the checkpoints at Carding and its benefits on quality of output.

Q3.
   a. What are the general control points and checkpoints in the production process?
   b. Briefly discuss the product design input and output parameters.

Q4. Discuss on Normal problems and Nonconformities in any of the following two: –
   a. BLOWROOM
   b. DRAWFRAME
   c. RING FRAME

Q5.
   a. What are the control points in Speed Frame? Briefly discuss effect of each on quality of the output.
   b. Briefly discuss the checkpoints at Speed frame and its benefits on quality of output.

Q6.
   a. Explain briefly the 7 steps of problem solving developed by Dr Juran and Prof Ishikawa.
   b. Explain briefly the 7 QC tools recognized during the evolution of TQM concept.

Q7.
   a. What are the 5 golden questions? Briefly discuss each.
   b. What are the basic principles of TQM? Discuss any four briefly.

Q8.
   a. What are the pre-requirements of an Auditor?
   b. Discuss the 5 S concept in brief