THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A. EXAMINATION-2020
SECTION D-SOD3
QUALITY AND ENVIRONMENT SYSTEM IN YARN MANUFACTURE

Date: 31.12.2020
Marks: 100
Time: 2pm to 5 pm

Instructions:
1. Attempt SIX questions out of which Q1 is Compulsory
2. Answer each next question on new page.
3. Figures to the right indicate full marks.
4. Illustrate your answers with sketches and flow chart wherever necessary.
5. Use of nonprogrammable electronic pocket calculator permissible.
6. Mobile and any other communication devices are not allowed in the exam hall.
7. Assume suitable data wherever necessary.

Q1 Choose the appropriate answer from the multiple choices in the following: 20

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

B Standardized color-coding helps visual communication do what?
   a. Help facilities improve cleanliness
   b. Add efficiency by appropriately directing personnel
   c. Built team work amongst the personnel
   d. Helps gives a facility a more professional look

C Quality improvement the process for
   a. Meeting quality goals during operations
   b. Preparing to met quality goals
   c. Breaking through to unprecedented levels of performance.
   d. All of these.

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

E Quality planning the process
   a. Meeting quality goals during operations
   b. Preparing to meet quality goals,
   c. Breaking through to unprecedented levels of performance.
   d. All of these.

F During Sort, you and your co-workers focus on what?
   a. Ensuring 5 s continues to function
   b. Establishing assigned cleaning duties
   c. Developing uniformity in facility visual communication
   d. Eliminating needles tools and equipment form workplace

G Quality is defined as the characteristics of a product or service that bear
on its ability to satisfy stated needs. This definition includes all of the following sub dimensions except
a. Reliability
b. Value
c. Performance
d. Conformance

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

I Quality control the process for
a. Meeting quality goals during operations
b. Preparing to meet quality goals
c. Breaking through to unprecedented levels of performance
d. All of these.

J Total quality management is based on all of the following principles except
a. Leadership involvement
b. Employee empowerment
c. Customer focus
d. Quality Assurance

Q2 a Explain Benchmarking process with suitable examples
b Define Quality as per Ed. Deming

Q3 Describe the following:
a Basic principles of TQM
b Even steps of problem solving developed by Dr Juran and Ishikawa

Q4 Explain about the following:
a Kaizen methodology
b PDCA and its relation with Kaizen

Q5 Please describe 5s concept in detail with application and it effect

Q6 a Explain the clauses of quality management system as per ISO 9001
b Explain role of environmental management systems with suitable application in Textile Industry

Q7 a Explain briefly the different Stakeholders of quality in spinning
b What are the different processes in Textile manufacturing unit and explain it with reference to ISO 9001 process monitoring

Q8 a Briefly explains the main benefits of implementing IS/ISO 14000 Environmental Management System Requirements
b What are the different statistical tools used in the spinning process? Explain any 2 from them.

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