THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A. (REVISED) EXAMINATION – 2015
SECTION-D
KNITTING TECHNOLOGY

Date: 25.12.2015          Marks: 100          Time: 2.00 pm to 5.00pm

Instructions:
1. Attempt SIX questions out of which Q1 is compulsory
2. Answer each next question on 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 permissible
6. Mobile and any other communication devices are not allowed in exam hall.
7. Assume suitable data wherever necessary

Q1  Differentiate between:
I. Woven and Knitted fabrics
II. Warp knitted and weft knitted fabric
III. Purl and interlock structures
IV. Linear and Non linear Cam

Q2  Explain with neat diagram the working principle of a circular latch needle knitting machine.

Q3  a. Describe the following Tricot structure with their representation:
   i. Two bar tricot lock knit structure
   ii. Reverse locks knit sharkskin structure
   b. Explain all stitches in knitting with diagram

Q4  a. Explain four woof structures with their line diagram notation and end use.
   b. Explain the working of purl knitting machine along with knitting cycle.

Q5  Make a list of faults generally occur in knitting with their cause and remedies.

Q6  a. Explain two derivatives each of plain, rib, purl and interlock structure.
   b. Calculate the production of 30° circular knitting machine in meters per day Assume that
      the machine is running with 20rpm and 92% efficiency having 92 feeders, 24 guages
      length of one course is 4m. (consider Kc to be 5.5)

Q7  Explain the working principle of tricot knitting machine with a neat and clean diagram

Q8  Draw latch and bearded needle action with their cam requirements.

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