THE TEXTILE ASSOCIATION (INDIA)
A.T.A. (REVISED) PART-III EXAMINATION – 2012
PAPER I — A3C.1
ELEMENTS OF TECHNICAL TEXTILES
MARKS : 100

Date: 22.12.2012
Time: 10 am to 1 pm

Instructions:
1. Attempt six questions out of which Q.1 is compulsory
2. Answer each next main question on new page
3. Figure to the right indicate full marks
4. Illustrate your answer 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.

Q.1.

a. Define the term “Technical Textiles” (06)
b. Give broad classification of Technical textile. (08)
c. Give examples for each categories of technical textile. (06)

Q.2.
What are protective textiles? How they are made? Give few examples and it’s classification and their importance. (16)

Q.3.
Explain the importance of quality assurance in technical textiles. What Parameters they have to meet for different applications?

a. Spunlace (06)
b. Spunbond (06)
c. What properties do you expect to meet in N-95 mask or doctors’ overcoat used during surgery? Give parameters and explanation. (04)

Q.4.

a. Give classification of Medical Textiles (05)
b. How important is medical textiles Compared to old technology (06)
c. Give reasons for maintaining better environment with disposables. (05)

Q.5.
Explain in brief the applications and the process involved in coating and lamination technology. (16)

Q.6.
Discuss in detail the manufacturing of conveyor belt, highlighting the type of fibre used for reinforcing to increase shelf life. (16)

Q.7.
What is chaffer fabric? How it is used in tyre cord industry? (16)

Q.8.

a. What are sport and agro technical textile? (08)
b. Discuss in brief the process and end use utility of the above technical textiles. (08)

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