THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A. EXAMINATION-2016
SECTION: D PAPER – D-2

MANMADE FIBRE TECHNOLOGY

Date: 27.12.2016 Marks: 100 Time: 2.00 pm to 5.00 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
   a) Give an account of classification of fibres. 10
   b) Differentiate the silk and cotton fibres on the basis of their physical and chemical properties. 10

Q2
   a) Discuss the condensation polymerization process with reference to manufacture of polyester chips. 08
   b) What is addition polymerization? Give an account of polymerization of polyelefin. 08

Q3
   a) Write a note on Teflon. 08
   b) Give an account of application of Aramid fibres. 08

Q4
   a) Explain melt spinning of thermoplastic fibres. 08
   b) Describe LOY, MOY, and POY. 08

Q5
   Describe Dry spinning and wet spinning and illustrate with examples. 16

Q6
   Discuss the manufacture of cellulose acetate fibres with schematic diagram and flow chart. 16

Q7
   Explain i) PVC, ii) PVA, iii) Modal and iv) Acrylic fibre. 16

Q8
   Describe the quality control measures in the manufacture of fibres through melt spinning process. 16

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