THE TEXTILE ASSOCIATION (INDIA)
ATA Part I Examination 2019
Paper - A 1.3

Textile Fibres

Instructions:
1. Answer any six questions out of which Question No1 is compulsory.
2. Answer each next main question on a 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 permitted.
6. Mobile and any other communication devices are not allowed in examination hall.
7. Assume suitable data wherever necessary.

State true or false, and if is false, rewrite the correct statement.

Q1
a. Nylon is a polyamide fibre.  
   b. Polyester is soluble in acetic acid  
   c. Burning of silk gives a smell of burning of paper.  
   d. Wool is a cellulosic fibre.  
   e. Cotton is having lower moisture content than wool.  
   f. Tensile strength of polyester is higher than that of viscose.  
   g. Manufacture of Nylon is carried out by wet spinning method.  
   h. Main component of silk is keratin  
   i. Polypropylene is lighter than polyester.  
   j. Viscose is having higher alkali resistance.

Q2
Write a short note on:
   a. Development of manmade fibres  
       b. Production of Silk

Q3
a. Describe in detail the chemical structure of wool.  
   b. List different spinning techniques of manufacture of manmade fibres. Explain any one of them with a neat diagram

Q4
a. Write a note on identification of fibres and state its relevance to the trade and industry.  
   b. Describe 'manufacture of polyester fibres

Q5
a. Describe the importance of cotton/polyester fibre blended yarn/fabric.  
   b. Discuss in detail the method of identification of wool and silk fibre.

Q6
a. Describe in detail the manufacture of acrylic fibres.  
   b. What are regenerated fibres? Give in details the production of viscose rayon fibres.

Q7
Explain the following terms:
   a. Melt Spinning  
   b. Chemical properties of cotton  
   c. Classification of textile fibres  
   d. Application of jute and flax fibres

Q8
a. Why polypropylene fibres are not suitable for apparel fabrics?  
   b. Discuss the desirable properties of fibre for apparel use.  
   c. Differentiate the properties of commercial fibres with fibres used in apparels.  
   d. Write a short Note on “physical Properties of Fibres”.

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