

UNIT-III

6. Give a brief classification of different types of dyes along with their advantage, disadvantages and area of application for different types of fibres. 10
7. (a) What is the difference between Water-proof and Water repellent finish ? 4
- (b) Write notes on the following :
- (i) Flame retardency finishing.
- (ii) Resin finishing. 6

UNIT-IV

8. Give a detailed methodology used for procuring a dye in an industry. Mention briefly different producers of dye and their cost comparison. 10
9. Write a detailed note on different suppliers of textile finishes in Indian market along with their product and cost. 10

Roll No.

Total Pages : 4

BT-3/D-12

8360

TEXTILE RAW MATERIALS

(Old for December 2010)

Paper—TT-203

Time Allowed : 3 Hours]

[Maximum Marks : 50

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. Question No. 1 is compulsory.

1. Select the correct answer : 1×10=10

(i) Which fibre has lowest Water absorbency

- (a) Nylon
- (b) Viscose
- (c) Polyester
- (d) Acrylic.

(ii) The central part of Cotton is called

- (a) Medulla
- (b) Lumen
- (c) Cortex
- (d) Secondary wall.

(iii) Finest Wool fibre will be

- (a) more crimp
- (b) shorter
- (c) thinner
- (d) All of above.

- (iv) Tencel is which category of fibre
- (a) Natural
 - (b) Synthetic
 - (c) Regenerated
 - (d) Mineral.
- (v) Which dye is generally used for Polyester fibre ?
- (a) Basic
 - (b) Acid
 - (c) Disperse
 - (d) Sulphur.
- (vi) Which dye is not used for Cellulosic fibre ?
- (a) Vat
 - (b) Direct
 - (c) Reactive
 - (d) Disperse.
- (vii) Silver ion is used for which finishing treatment ?
- (a) Anti-microbial
 - (b) Anti-static
 - (c) Flame retardency
 - (d) Water repellency.
- (viii) NANO-PEL finish give which characteristics to a fabric?
- (a) Anti-microbial
 - (b) Water oil repellency
 - (c) Flame retardency
 - (d) Crease resistance.

- (ix) Where India stands in polyester filament production ?
- (a) First
 - (b) Second
 - (c) Third
 - (d) Fourth.
- (x) Retting is related to which fibre ?
- (a) Cotton
 - (b) Wool
 - (c) Silk
 - (d) Jute.

UNIT-I

2. (a) Give a detailed fibre classification chart. 5
- (b) What do you mean by Ginning and Grading of Cotton fibre ? 5
3. Discuss, how the Silk is produced by Silkworm. How the Silk is extracted from Cocoon ? 10

UNIT-II

4. (a) Discuss the production process of Viscose fibre along with its important properties. 7
- (b) Give a comparative assessment of Viscose and Tencel fibre. 3
5. (a) Give a comparative assessment of the following :
(i) Nylon 5 Vs Nylon 66
(ii) Spandex Vs Rubber. 6
- (b) Give the flowchart of spinning of Polyester fibre. 4