

Roll No.

Printed Pages : 3

33129**BT-3 / D-17****TEXTILE CHEMICAL PROCESSING-I****Paper-TT-209 N**

Time allowed : 3 hours]

[Maximum marks : 75

Note : Question No. 1 is compulsory. Answer one question from each of the sections A, B, C and D.

1. (i) Wax is a ____ impurity in cotton. 1x15=15
(a) natural (b) added (c) in-process
- (ii) Most preferred singeing machine is ____
(a) roller (b) plate (c) gas
- (iii) Iodine spotting is done to test the efficiency of ____
(a) singeing (b) desizing (c) scouring
- (iv) Scouring of cotton is done in the ____
(a) alkali (b) acid (c) salt
- (v) Peroxide bleaching takes place by ____
(a) oxidation (b) reduction (c) acidity
- (vi) Bleaching is done to improve ____
(a) weight (b) whiteness (c) absorbency
- (vii) Mercerization of cotton increases ____
(a) strength (b) lustre (c) dye - uptake
(d) all the above
- (viii) A temperature of 200°C may be suitable to heat set ____
(a) polyester (b) cotton (c) viscose (d) nylon

(2)

- (ix) Direct dye usually has ____ wash fastness.
(a) good (b) moderate (c) poor
- (x) Sulphur dye is best suited for ____
(a) cotton (b) wool (c) acrylic
- (xi) Pigments may have interior ____ fastness
(a) wash (b) rub (c) light
- (xii) Fibre dyeing is usually done in ____ process.
(a) batch (b) continuous (c) semi-continuous
- (xiii) ____ is retained in fibre after degumming.
(a) sericin (b) fibroin (c) gum
- (xiv) Moth proofing is mostly required for ____
(a) polyester (b) nylon (c) wool
- (xv) Fabric is processed in jiggar in ____ form
(a) rope (b) half-width (c) full-width

Section-A

2. (i) List out the various impurities in cotton. Write the general process sequence followed in cotton processing. 6
- (ii) Give a brief account of not steeping and acid desizing. How is efficiency of desizing tested? 9
3. With recipe and conditions, discuss the scouring of cotton in a Keir. 15

Section-B

4. Describe hypochlorite bleaching of cotton with particular reference to its pH sensitivity. 15

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5. Explain in detail, the physical and chemical changes caused in mercerization. Also describe the methods for assessing mercerization efficiency. 15

Section-C

6. Discuss dyeing of cotton with following: 5×3=15
- (a) Vat dye
- (b) Direct dye
- (c) Solubilised vat dye
7. With all technical details, explain the package dyeing machines and padding may be used for industrial production. 15

Section-D

8. Give a detailed account of wool processing. 15
9. Describe the various methods of silk degumming. Also briefly write about weighting of silk. 15

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