

Roll No.

Total Pages : 05

BT-4/M-24

44200

TEXTILE CHEMICAL PROCESSING-II

PCC-TEX-208A

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (i) Which thickener you recommend for reactive dye printing ?
- (a) Starch
 - (b) Sodium alginate
 - (c) Gum tragacanth
- (ii) Batik is style of printing.
- (a) Direct
 - (b) Discharge
 - (c) Resist
- (iii) Transfer printing is suitable for.....fabrics.
- (a) Cotton
 - (b) Wool
 - (c) Polyester
- (iv) What chemicals are used for anti-crease finish ?
- (a) Starch

- (b) Resins
- (c) Silicones
- (v) Zero-zero finish is synonym to :
 - (a) Sanforizing
 - (b) Milling
 - (c) Heat setting
- (vi) LOI value is related to which finish evaluation :
 - (a) Water repellent
 - (b) Flame retardant
 - (c) Sueding
- (vii) Eco-friendly alternative to desizing :
 - (a) Acid
 - (b) Enzyme
 - (c) Oxidizing agent
- (viii) Pigment printing is suitable fortextiles.
 - (a) Natural fibers
 - (b) Synthetic fibres
 - (c) Both (a) and (b)
- (ix) Scale for the evaluation of Light fastness rating is :
 - (a) 1 to 5
 - (b) 1 to 8
 - (c) 1 to 7
- (x) Which finishing is done for dimensional stability in synthetics ?
 - (a) Milling

- (b) Heat setting
(c) Sanforizing
- (xi) Emery papers are used in the process.
(a) Milling
(b) Calendring
(c) Sueding
- (xii) Silicones are used to impart..... effect.
(a) Water repellent
(b) Flame retardant
(c) Scroop
- (xiii) Mass coloration is most suitable for :
(a) Cotton
(b) Polyester
(c) Polypropylene
- (xiv) Which enzyme is used for the Bio-polishing of cotton textiles ?
(a) Cellulase
(b) Amylase
(c) Pectinase
- (xv) Weighting of silk is done with.....
(a) Peroxide
(b) Resin
(c) Strach

15×1=15

Unit I

2. Differentiate between dyeing and printing. What are the different styles of textile printing ? Enlist the different ingredients used in printing paste for textiles and give details on their functions. 15
3. (a) Discuss the transfer printing process mentioning its advantages and disadvantages. 8
(b) Explain the concept of Pigment printing of textiles with recipe and process detail. 7

Unit II

4. (a) Classify textile finishes on a different basis. Explain the concept of sanforizing with a machine diagram and technical detail. 8
(b) Write technical notes on the Flame-retardant finishes in textiles with a brief introduction on the evaluation of these finishes. 7
5. (a) Discuss the mechanism for antcrease finish for cellulosic textiles and explain the concept of formaldehyde-based antcrease finish. 8
(b) Discuss the concept of foam finishing with technical and machine detail. 7

Unit III

6. Explain the concept of the continuous dyeing process with complete technical details and machine diagrams. 15

7. (a) Discuss the concept of Mass coloration technology in detail with their methods, advantages and disadvantages. 8
- (b) Explain the concept of Batik and Tie-dye with technical detail. 7

Unit IV

8. Explain the details of effluent generated from textile chemical processing and effluent treatment process. 15
9. (a) What do you understand by colorfastness ? Name different types of fastness properties evaluated on textiles. 7
- (b) Write a short note on the eco-friendly processing of textiles. 8

EXAMKIT