

Roll No.

Total Pages : 5

BT-4/M-13

8457

TEXTILE CHEMICAL PROCESSING-II

Paper : TT-206(A)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *five* questions in all. Select *one* question from each unit and Question No. 1 which is compulsory.

(Compulsory Question)

1. (a) Which thickener is an example of modified guar gum ?
(i) British gum
(ii) Conc
(iii) Gum Indalca
(iv) Ethyl cellulose.
- (b) Thickener which is based on sea weed is
(i) British gum
(ii) Gum tragacanth
(iii) Sodium alginate
(iv) Gum Indalca.
- (c) Which thickener is most suitable to reactive dye ?
(i) British gum
(ii) Starch
(iii) Sodium alginate
(iv) Gum tragacanth.

8457/150/KD/1266

[P.T.O.

- (d) Transfer printing is most suitable for
(i) Cotton
(ii) Silk
(iii) Nylon
(iv) Polyester.
- (e) Which antcrease finish is associated with formaldehyde release ?
(i) Citric acid
(ii) BTCA
(iii) DMV
(iv) Gluteraldehyde.
- (f) Doctor Blade is related to
(i) Roller printing
(ii) Screen printing
(iii) Block printing
(iv) All the above.
- (g) Which is *not* a mechanical finish ?
(i) Sueding
(ii) Raising
(iii) Antcrease finish
(iv) Sanforisation.
- (h) Velon PF is a
(i) Water repellent
(ii) Flame retardant
(iii) Softener
(iv) Antcrease.

8457/150/KD/1266

2

- (i) Halogen compound based flame retards work on which mechanism ?
- (i) Condensed phase
 - (ii) Gas phase
 - (iii) Physically active based
 - (iv) All the above.
- (j) Cotton is more prone to creasing due to
- (i) Ionic bonds
 - (ii) Hydrogen bond
 - (iii) Covalent bonds
 - (iv) None of these.
- (k) Rating of wash fastness is
- (i) 1 to 5
 - (ii) 1 to 8
 - (iii) 1 to 9
 - (iv) 0 to 5.
- (l) Wax is used in which type of printing ?
- (i) Tie & Dye
 - (ii) Batik
 - (iii) Crimp
 - (iv) Discharge.
- (m) Which dye has maximum wash fastness ?
- (i) Direct
 - (ii) Vat
 - (iii) Levelling acid
 - (iv) Sulphur.

- (n) Which fibre is known for its excellent flame retardant properties ?
- (i) Liocell
 - (ii) Tencel
 - (iii) Nomex
 - (iv) Kevlar.
- (o) Which dye is formed inside the fabric ?
- (i) Direct
 - (ii) Azoic
 - (iii) Solubilised vat
 - (iv) Acid.
- (p) Mention various ingredients of printing paste.
- (q) Write the role of steaming in printing.
- (r) Give names of few eco-friendly processes.
- (s) Mention various problems associated in roller printing.
- (t) What do you mean by Mass colouration ? (20×1=20)

UNIT-I

2. Describe various styles of printing on cellulosic fabric with suitable dyes. 20
3. Write detailed note on Pigment printing. 20

UNIT-II

4. Classify various softeners on the basis of their chemical nature. Discuss softeners with their advantages and limitations in detail. 20
5. Discuss the following :
- (a) Water repellent and Water proofing.
 - (b) Sanforisation. (10+10=20)

UNIT-III

6. Describe continuous pretreatment and dyeing operation with neat machine diagram. Compare them with batch Processes.
20
7. Describe Mass colouration with its advantages and limitations.
20

UNIT-IV

8. Write detailed note on identification of Dyes on textile materials.
20
9. (a) Discuss washing fastness properties of various dyes and its evaluation procedure.
(b) Describe Eco-friendly processing and its advantages.
(10+10=20)
-