

17458

16172

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any TEN :

20

- (a) State objectives of shearing and cropping and give its significance.
- (b) Define the term :
 - (i) Dye
 - (ii) % shade
- (c) Explain various methods of printing of textiles.
- (d) Give the classification of desizing methods.
- (e) Describe the term (i) Exhaustion and (ii) Expression.
- (f) Describe the steps involved in the printing of fabrics.
- (g) What is the significance of Grey Inspection ?
- (h) Give brief classification of "Reactive Dyes".
- (i) What is the significance of light fastness test ?

[1 of 4]

P.T.O.

- (j) What is “scouring’ ? Give the objectives of scouring.
- (k) What are the various styles of printing of textiles ?
- (l) Give applicationwise classification of vat dyes.
- (m) Enlist any four bleaching agents.
- (n) What is the criteria for the selection of dyes for dyeing of polyester ?
- (o) List the various speciality prints used in printing of textiles.

2. Attempt any FOUR :**16**

- (a) Explain any one grey inspection system and its rejection criteria during grey inspection.
- (b) Explain the important steps in the dyeing of cotton with Vat dyes.
- (c) What are the various chemical reactions occurring during scouring of cotton ?
- (d) Differentiate between “Dyeing” and “Printing”.
- (e) With a well labelled diagram, explain working of a Roller printing machine.
- (f) Explain the dyeing process of polyester by HTHP method.

3. Attempt any FOUR :**16**

- (a) Explain the process of “Enzymatic” desizing of cotton.
- (b) What are the advantages and limitations of “Natural dyes” ?
- (c) Describe the “Discharge style” of printing with suitable example.
- (d) With neat sketch explain working of gas singeing machine.
- (e) Explain the concept of “Ink jet printing” technique.
- (f) Describe the dyeing process of cotton with Direct dyes. Mention the various after treatments of the dyed fabric.

4. Attempt any FOUR :**16**

- (a) With a suitable example, explain the “Resist” style of printing.
- (b) Explain the process of evaluation of desizing efficiency of cotton.
- (c) Describe the concept of flock printing in textiles.
- (d) Explain the dyeing process of polyester/cotton blended fabric by using disperse/reactive dyes.
- (e) Explain the evaluation method of sublimation fastness of dyed textile materials.
- (f) What are the advantages and limitations of rotary printing machines ?

5. Attempt any FOUR :**16**

- (a) Explain the “Tie & Dye” method of printing.
- (b) Explain the “foam printing” method with its speciality features.
- (c) Describe the dyeing of cotton with cold brand reactive dye.
- (d) Explain the method for the evaluation of washing fastness of dyed materials.
- (e) Explain the Table Screen Printing Method for printing of textile materials.
- (f) What are the advantages and limitations of flat bed printing ?

P.T.O.

6. Attempt any FOUR :**16**

- (a) Explain the process of bleaching of cotton with Hydrogen peroxide. Also mention advantages of hydrogen peroxide bleaching.
 - (b) What are the ingredients of a printing paste ? Explain their functions.
 - (c) With a neat and well labelled diagram, explain the working of a Jigger dyeing machine.
 - (d) Explain the method used for the evaluation of perspiration fastness.
 - (e) Explain the modern print effect with respect to pearl printing and foil printing.
 - (f) Describe the method for evaluation of light fastness of dyed fabrics.
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