

313352

24225

3 Hours / 70 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) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE :

10

- (a) State the need for desizing.
- (b) Enlist any four bleaching agents.
- (c) Define : (i) % exhaustion (ii) % expression.
- (d) Enlist any two characteristics of vat dye.
- (e) Suggest the dyes for dyeing of PC blend fabric by one bath method.
- (f) Enlist any two printing machines for Textiles.
- (g) Name the fibers to prepare flock for printing.

2. Attempt any THREE :

12

- (a) Explain the construction and working of gas singeing machine with suitable sketch.
- (b) Define : (i) Cross dyeing (ii) Reverse dyeing.
- (c) Explain batik and block printing methods.
- (d) Explain pigment printing process with parameters for cotton fabric.



- 3. Attempt any THREE :** **12**
- (a) Compare hypochlorite bleaching with peroxide bleaching.
 - (b) Differentiate between dyes and pigments.
 - (c) Differentiate between padding and exhaust methods.
 - (d) Explain electrostatic Flock printing method.
- 4. Attempt any THREE :** **12**
- (a) Describe construction and working of jigger machine.
 - (b) Elaborate on polyester dyeing mechanism with disperse dyes.
 - (c) Suggest the suitable print fixation methods for direct dye printing and pigment printing on cotton fabric.
 - (d) Suggest the procedure for magic printing.
 - (e) Analyse : (i) foil printing (ii) brasso printing.
- 5. Attempt any TWO :** **12**
- (a) Analyse the changes in cotton fibre after mercerization with suitable sketch.
 - (b) Suggest the recipe and procedure for dyeing of cotton fabric with hot brand reactive dye. Also suggest the after treatment.
 - (c) Elaborate on thermosol method of dyeing of polyester with disperse dye.
- 6. Attempt any TWO :** **12**
- (a) A 1000 yards of fabric with 42" width is inspected and following no. of defects were observed :

Defect size	No. of defects
< 3"	24
3" – 6"	20
6" – 9"	8
> 9"	4

Calculate total penalty points per 100 square yards and conclude the acceptance or rejection of fabric lot.
 - (b) Discuss the application of acid dye on wool fabric with suitable parameters.
 - (c) Explain colour discharge printing of cotton fabric with reactive dye.
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