

22367

21222

3 Hours / 70 Marks

Seat No.

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15 minutes extra for each hour

- 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.

Marks

1. Attempt any FIVE :

10

- (a) State the objectives of singeing process.
- (b) Classify methods of Desizing.
- (c) List the types of dyes used to colour cotton fibre.
- (d) Name the chemical bond formed by reactive dye with cotton fibre.
- (e) State any four properties of disperse dye.
- (f) State any two objectives of printing process.
- (g) State any two objectives of finishing process.

2. Attempt any THREE :

12

- (a) Explain the procedure to bleach a cotton material with Hydrogen peroxide (Include recipe & continuous bleaching machine).

- (b) Describe with neat sketch working of jigger machine.
- (c) Explain the procedure of dyeing of cotton material with direct dyes.
- (d) Prepare a white discharged printed cotton fabric using direct dye (include recipe, procedure and after treatment).

3. Attempt any THREE :**12**

- (a) Describe with neat sketch working of gas singeing machine.
- (b) Explain the procedure of dyeing of polyester fibre with disperse dye using cammer-dyeing method.
- (c) Explain the direct, discharge and resist style of printing.
- (d) Describe the construction and working of stenter machine used in finishing of textiles.

4. Attempt any THREE :**12**

- (a) Describe the printing of cotton fabric with reactive dye using direct style of printing.
- (b) Explain with neat sketch the construction and working of flat bed screen printing machine.
- (c) Explain the mechanism of resin finishing.
- (d) Describe the mechanism of anti-microbial finishing of cotton and its blends.
- (e) Describe the process of dyeing of wool fibre with acid dye, include chemical reaction involved.

5. Attempt any TWO :**12**

- (a) Identify the necessity of heat setting of synthetic fibre.
- (b)
 - (i) Classify the colouring matter based on application.
 - (ii) Apply the procedure of dyeing on cotton with hot brand reactive dye, include the chemical reaction.
- (c) Describe the procedure of dyeing polyester-cotton blended fabric with two bath method.

6. Attempt any TWO :**12**

- (a) Explain the procedure of dyeing of Nylon fibre with reactive dye.
 - (b) Describe the procedure to print cotton fabric with pigments.
 - (c)
 - (i) Give the classification of Softners.
 - (ii) Explain the procedure to apply softner on fabric, include recipe and process parameters.
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