

313352

12425

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) Assume suitable data, if necessary.
  - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.

**Marks**

**1. Attempt any FIVE of the following :**

**10**

- (a) State the importance of wet processing.
- (b) List the faults present in grey fabric.
- (c) Define the term “Percentage expression” with example.
- (d) List the dyes used for wool fibre dyeing.
- (e) Name the dyes used for polyester fibre dyeing.
- (f) Enlist the conventional printing methods.
- (g) Enlist any four novel printing methods.

**2. Attempt any THREE of the following :**

**12**

- (a) Compare acid desizing method with enzyme desizing.
- (b) Describe solid dyeing, cross dyeing, reserve dyeing and reverse dyeing with example.
- (c) State the concept of direct, discharge and resist style of printing with example.
- (d) Compare conventional printing with novel printing.



- 3. Attempt any THREE of the following : 12**
- (a) Describe with neat sketch, construction and working of gas singeing machine.
  - (b) Describe the procedure for dyeing of wool with acid dyes.
  - (c) Describe the procedure to get tie and dye effect on cotton fabric.
  - (d) Describe with process parameters for “Kahdi Printing”.
- 4. Attempt any THREE of the following : 12**
- (a) Differentiate between dyeing and printing.
  - (b) Explain polyester dyeing process by HTHP method.
  - (c) Explain the print paste ingredients used in printing with their function.
  - (d) Explain the method to produce magic print effect on garment.
  - (e) Explain the method to produce foil print effect on garment.
- 5. Attempt any TWO of the following : 12**
- (a) Explain bleaching mechanism with Hydrogen Peroxide on cotton fabric.
  - (b) Suggest process with parameter for dyeing of cotton fabric with hot brand reactive dyeing.
  - (c) Explain the dyeing of P/C blend by using one bath dyeing method.
- 6. Attempt any TWO of the following : 12**
- (a) A fabric rolls of 100 m long and 150 cm width contain following defect :  
2 defects up to 3 inches, 2 defects from 3-6 inches, 1 defect from 6-9 inches, 1 defect above 9 inches. Decide fabric should be accepted or rejected if a selection criterion is 20 point/100 m<sup>2</sup>.
  - (b) Suggest process with parameters for dyeing of cotton fabric with vat dyes by exhaust method.
  - (c) Explain direct style of printing with reactive dye on cotton fabric.
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