

22470

23124

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) Figures to the right indicate full marks.
  - (5) Assume suitable data, if necessary.
  - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
  - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

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

**10**

- (a) State the object of desizing.
- (b) Define bleaching process.
- (c) Define dyeing process.
- (d) State % exhaustion with example.
- (e) Define reverse and reserve dyeing.
- (f) State the object of Tie and dye.
- (g) Define carbonisation process.

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

**12**

- (a) Describe with neat sketch construction of gas singeing machine.
- (b) Suggest machine for continuous dyeing of 100% cotton fabric.
- (c) Describe with process parameter carrier dyeing of polyester.
- (d) Describe batik method of printing.



- 3. Attempt any THREE of the following : 12**
- (a) Describe with process parameter enzyme desizing of 100% cotton.
  - (b) Describe with process parameter one bath dyeing of p/c blend fabric.
  - (c) Explain direct style printing of silk using metal complex dyes.
  - (d) Describe carbonised printing with process parameter.
- 4. Attempt any THREE of the following : 12**
- (a) Describe method of evaluating efficiency of bleaching.
  - (b) Suggest method for mercerisation of 100% knitted fabric.
  - (c) Describe with process parameter discharge style printing of polyester.
  - (d) Describe with process parameter pearl printing of cotton.
  - (e) Describe with process parameter pigment printing.
- 5. Attempt any TWO of the following : 12**
- (a) Describe with neat sketch construction and working of PTR machine.
  - (b) Suggest process parameter for dyeing of wool with metal complex dye.
  - (c) Suggest process parameter for dyeing of p/c blend fabric in two bath.
- 6. Attempt any TWO of the following : 12**
- (a) Suggest process parameter for dyeing of cotton with vat dyes.
  - (b) Explain procedure for printing of cotton by using reactive dye.
  - (c) Suggest process parameter for printing of p/c blend fabric to get brass effect.
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