

17458

**11718**

**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 FIVE of the following :**

**20**

- (a) Give the process flow chart for wet processing of 100% cotton fabric.
- (b) Enlist names of machines used for grey inspection and explain working procedure of one machine.
- (c) Explain the terms :
  - (i) % expression
  - (ii) Exhaustion
- (d) Explain the procedure for dyeing of cotton with sulphur dyes.
- (e) State the object of printing and explain function of thickness in printing.
- (f) Explain the advantages and drawbacks of table screen printing.
- (g) Explain the procedure for evaluation of light fastness for given textile substrate.

**2. Attempt any FOUR of the following :****16**

- (a) Give brief classification of singeing machines and state object of singeing.
- (b) Explain the changes brought about by mercerisation of cotton.
- (c) 'Enzyme desizing is called as safest method of desizing'. Justify the statement.
- (d) Explain scouring process for cotton fabric.
- (e) Describe the procedure for dyeing of cotton with cold brand reactive dyes.
- (f) With neat sketch, explain working of open Jigger dyeing machine.

**3. Attempt any FOUR of the following :****16**

- (a) Explain grey inspection process also state the criteria for rejection.
- (b) Describe the batchwise process of bleaching by using hydrogen peroxide.
- (c) Describe the objectives of shearing and cropping process.
- (d) With neat sketch, explain working of winch dyeing machine.
- (e) Explain the process of azoic dyeing on cotton.
- (f) What are natural dyes ? Enlist names of four natural dyes.

**4. Attempt any FOUR of the following :****16**

- (a) Explain the procedure for dyeing PIC blended by using disperse/reactive dyes.
- (b) Explain the procedure of thermosol dyeing of polyester.
- (c) Define discharge style of printing. Enlist names of two reducing agents commonly used in printing.
- (d) Explain the process of block printing. Also state its disadvantages.
- (e) Differentiate between dyeing and printing.
- (f) Describe the concept of foam printing.

**5. Attempt any FOUR of the following :****16**

- (a) Define resist style of printing and give recipe for resist printing by direct dye on cotton.
- (b) Explain the process for direct style of printing of cotton with reactive dyes.
- (c) Explain printing process of polyester with disperse dyes.
- (d) With neat sketch, explain working of flat bed screen printing machine.
- (e) Describe pearl printing and give the recipe for pearl printing paste.
- (f) Describe the process of table screen printing and also state its advantages.

**P.T.O.**

6. Attempt any **FOUR** of the following :

16

- (a) Explain the concept of ink jet printing.
  - (b) Describe working of rotary printing machine with neat sketch.
  - (c) Explain the process of flock printing.
  - (d) Explain the process for evaluation of rubbing fastness of given textile substrate.
  - (e) State the procedure to determine perspiration fastness of dyed cotton fabric.
  - (f) Define sublimation and explain the process of sublimation fastness evaluation.
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