

# 22459

**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 answer 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) Write the flow hart of the stages involved in printing of sateen woven cotton fabric.
  - b) Enlist the different styles of printing.
  - c) Write any two limitations of flat bed screen printing machine.
  - d) List the different types of binders used for pigment printing.
  - e) Write the process sequence of printing cotton with azoic colours.
  - f) Give two objectives of print fixation.
  - g) Write the print paste formulation for printing cotton with direct dyes by direct style.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Differentiate between dyeing and printing on any four points.
  - b) With outline sketch write the technical features of flat bed screen printing machine.
  - c) Justify the function of each ingredient used in print paste formulation for vat dyes by direct style on 100% cotton poplin fabric.
  - d) Write the advantages and limitations of basic dyes on wool printing.
- 3. Attempt any THREE of the following:** **12**
- a) Justify the relation between selection of reactive dyes and chemistry of sodium alginate thickener on 100% voile cotton.
  - b) Write the technical features of a rotary screen printing machine with a neat labelled sketch.
  - c) Justify the importance of steaming in printing of various textile substrates.
  - d) Describe the procedure to produce print by using metal complex dyes on wool by direct style of printing.
- 4. Attempt any THREE of the following:** **12**
- a) Summarise the classification of thickness based on the sauce and chemistry.
  - b) Elaborate the principle involved in the Resist styles of printing.
  - c) Justify two advantages and limitations of flat bed screen printing machine.
  - d) Describe the procedure of pigment printing on 100% polyester chiffon fabric.
  - e) Elaborate the relevant preparation of 100% cotton fabric from printing view point with due justification.

- 5. Attempt any TWO of the following:** **12**
- a) Select a relevant printing process for producing white discharge on vat dyed cotton fabric.
  - b) Choose appropriate blade and magnetic squeeze for printing of fine motifs by using rotary screen printing machine. Explain with the help of a neat labelled diagram.
  - c) Choose a relevant print paste formulation and procedure for producing magic style print on 100% cotton.
- 6. Attempt any TWO of the following:** **12**
- a) Choose relevant machinery for a saree printing which has different motifs of 08 colours with a repeat size of 64 cm. Also comment on the technical features of the same.
  - b) Choose the relevant process and process parameters for fixation of vat dyes on cotton by direct style of printing.
  - c) Choose a relevant method of pigment printing on given 100% silk fabric. Also select the relevant formulation and give the function of each ingredient.
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