

17458

15162

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 :

20

- Give the process sequence flow chart for textile wet processing. State the importance of grey inspection.
- What is the objective of scouring ? Give the recipe for scouring of cotton fabric.
- Give the comparison between dyes and pigments.
- Explain the terms :
 - Percentage shade
 - Percentage expression
- Differentiate between dyeing and printing of textiles.
- Explain the concept of InkJet printing technique.
- Describe the evaluation method for rubbing fastness properties of dyed fabrics.

2. Attempt any TWO :

16

- What is the objective of singeing process ? Describe the Gas singeing machine with its construction and working. Write its advantages and limitations.
- Describe in detail the dyeing of polyester fabric with disperse dyes by HTHP method.
- State two importance of evaluating fastness properties of dyed textiles. Explain evaluation methods of washing fastness and perspiration fastness of dyed fabric.

- 3. Attempt any FOUR :** **16**
- (a) Describe the enzymatic desizing process for gray cotton fabric.
 - (b) Explain the importance of printing paste ingredients with their functions.
 - (c) Describe Tie and dye method for cotton fabric.
 - (d) What are the objectives of Thickeners in printing paste ? Give the properties of sodium alginate.
 - (e) Give the difference between flat-bed printing and rotary printing.
 - (f) Describe any one method for evaluation of light fastness for coloured fabric.
- 4. Attempt any TWO :** **16**
- (a) What is the objective of Bleaching ? Describe in detail the bleaching of cotton fabric with Hydrogen peroxide with it's advantages and limitations.
 - (b) With neat labelled diagram describe the construction and working of Jigger dyeing machine. Write it's advantages and limitations.
 - (c) Describe in detail the direct style and discharge style of printing for cotton fabric with reactive dyes.
- 5. Attempt any FOUR :** **16**
- (a) Explain the concept of cotton dyeing with natural dyes.
 - (b) Describe the resist style of printing for polyester fabric with disperse dyes.
 - (c) Give the advantages and limitations of roller printing machine.
 - (d) Explain the concepts of speciality prints link. Pearl printing and foam printing.
 - (e) State the importance of sublimation fastness property of disperse dyes. How it can be made use in textile printing ?
 - (f) Explain the application methods of vat dyes for cotton fabric.
- 6. Attempt any TWO :** **16**
- (a) What is mercerisation process ? Describe the mercerisation process for cotton fabric by pad-chainless machine. Write its advantages and limitations.
 - (b) Explain in detail the dyeing of cotton fabric with reactive dyes by various methods. Write their advantages and limitations.
 - (c) Describe the construction and working of rotary printing machine for printing of cotton fabric with reactive dyes alongwith the after treatment for the same.
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