

17466

11819

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) Define direct dyes? Write it's advantages and disadvantages.
- b) Classify with examples colouring matter based on applications.
- c) Describe the procedure for printing of cotton fabric with vat dyes.
- d) Differentiate between flat bed printing machine and roller printing machine.
- e) Explain the working principle of VDR machine.
- f) What is the objective of textile finishing? Explain the classification of finishing processes.
- g) State the importance of flame retardant finishing. Enlist the names of flame retarding chemicals.

P.T.O.

- 2. Attempt any TWO of the following:** **16**
- a) Explain the dyeing process for cotton fabric with any two classes of reactive dyes.
 - b) With neat sketch explain the construction and working of Jigger dyeing machine. Write its advantages and limitations.
 - c) Describe the application methods of resist, discharge and direct styles of printing on textiles.
- 3. Attempt any TWO of the following:** **16**
- a) Describe the methods of dyeing polyester fabric with disperse dyes. Write their advantages and limitations.
 - b) What is the working principle of padding mangles? Describe various types of padding mangles with their advantages and limitations.
 - c) What are objectives of calendaring? Describe any one calendaring machine with neat sketch. Write its advantages and limitations.
- 4. Attempt any TWO of the following:** **16**
- a) Explain the procedure for dyeing Nylon fabric with disperse dyes and reactive dyes.
 - b) With neat labelled diagram explain the working of Winch dyeing machine. Write its advantages and limitations.
 - c) Explain the method of printing cotton fabric with reactive dyes and pigments.

- 5. Attempt any TWO of the following:** **16**
- a) Explain the procedure of dyeing polyester / cotton blended fabric using disperse and reactive dyes.
 - b) Describe in detail the working process of rotary printing machine. Write it's various parts and their functions.
 - c) What is the function of thickness in printing? Explain the classification of thickness with suitable examples.
- 6. Attempt any TWO of the following:** **16**
- a) Explain the construction and working principle of Jet dyeing machine. Write the various types of Jet machines and their advantages and limitations.
 - b) With neat labelled diagram explain the construction and working of Sanforizing machine.
 - c) Explain the importance of Stenter machine in textile finishing. Explain it's various applications.
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