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16117

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**
- Write the advantages and disadvantages of Direct dyes for Textile dyeing.
 - Write the procedure for dyeing of cotton fabric with Azoic dyes.
 - Draw the diagram of 2dip=2nip padding mangle and write it's working principle.
 - Give the comparison between yarn dyeing machineries and fabric dyeing machineries.
 - Explain the process for vat dyes printing on cotton fabric.
 - What are objectives of textile finishing? Write the classification of finishing processes.
 - What is the principle of optical brightening of the textile fibres. Explain the method of application of optical brightener on cotton fabric.

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- 2. Attempt any TWO of the following:** **16**
- a) Describe in detail the dyeing of polyester with disperse dyes by various methods.
 - b) Describe the construction and working of Jet dyeing machine. Write its advantages and disadvantages.
 - c) Explain the styles of printing with their methods of applications on textile fabrics.
- 3. Attempt any FOUR of the following:** **16**
- a) Explain the dyeing procedure for sulphur dyeing to cotton fabric.
 - b) Describe the construction and working principle of soft flow dyeing machine.
 - c) Give the comparison between Roller printing machine and Rotary printing machine.
 - d) With neat labelled diagram explain the working of friction calendering machine.
 - e) What is mercerisation? Explain the changes takes place due to mercerisation on the fabric.
 - f) Describe the working of sanforising machine with its working principle.
- 4. Attempt any TWO of the following:** **16**
- a) Explain in detail the dyeing of cotton fabric with reactive dyes by various methods.
 - b) Draw the line diagram of Jigger dyeing machine and explain its construction and working principle. Write its various applications.
 - c) Describe the construction and working of flat bed printing machine. Write it's advantages and limitations (Two of each category)

- 5. Attempt any FOUR of the following:** **16**
- a) What are vat dyes? Give the classification of vat dyes?
 - b) Write the procedure for dyeing of nylon fabric with reactive dyes.
 - c) Explain the construction and working principle of package dyeing machine.
 - d) Write the chemical ingredients used in textile thickeners alongwith their functions.
 - e) Give the comparison between dyes and pigments.
 - f) Describe the pad chainless mercerisation process for cotton fabric.
- 6. Attempt any TWO of the following:** **16**
- a) Describe in detail the dyeing of polyster/cotton blend fabric by ecofriendly and economical way. Write the recipies for them. Explain about precautions to be taken for better results.
 - b) Describe the construction and working principle of Rotary screen printing machine. Write its's advantages and limitations. (Two points of each).
 - c) Describe the construction and working of stenter machine in finishing. Explain its various applications.
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