

17466

14115

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 TEN of the following: 20

- a) What are Azoic Colours? How are they classified?
- b) What is the importance of soaping in reactive dyeing of cotton?
- c) What is M:L ratio and how it affects on dyeing?
- d) What are the various methods of fixation of prints?
- e) What are the objectives of “Finishing”.
- f) List out the various chemicals used in textile printing.
- g) What is the significance of assessment of “Light fastness”.
- h) What are the drawbacks of Roller printing machine?
- i) What are the drawbacks of a Winch dyeing machine?
- j) What is the principle of “Jigger dyeing”.
- k) What is the significance of assessment of “Perspiration fastness”.
- l) What are the steps involved in “Vat dyeing”.

P.T.O.

- m) What is the objectives of mercerisation process?
- n) Write down the limitations of sulphur dyes?

2. Attempt any FOUR of the following: 16

- a) What are the different after treatments given to direct dyed fabrics to improve its fastness.
- b) With a neat and labelled diagram, explain the principle, construction and working of Jet Dyeing Machine.
- c) What are the various methods and styles of printing? Describe discharge style printing.
- d) With a printing recipe, explain the process and method of printing of cotton with reactive dyes.
- e) Describe the construction and working of a HTHP package dyeing machines for yarn dyeing.
- f) Describe the various techniques of calendering with their specific properties.

3. Attempt any FOUR of the following: 16

- a) With a neat and labelled diagram, explain the Jigger dyeing machine.
- b) Explain the process of “Reactive dyeing” of cotton.
- c) Give the classification of “Finishing” and the significance of finishing.
- d) Explain the construction and working of a “Stenter”.
- e) With a printing recipe, explain the printing of cotton with pigment colours.
- f) What are optical brightening agents? Describe its importance in finishing.

- 4. Attempt any FOUR of the following: 16**
- a) Describe the importance of “Heat setting” and “Sanforsing”.
 - b) Describe the process of dyeing of polyester with disperse dyes.
 - c) Explain “Water repellent” and water proof finishes with their application in textiles.
 - d) Describe the process of dyeing of cotton with vat dyes.
 - e) Explain “Flame retardant” finish and its significance in textiles.
 - f) What are the advantages and drawbacks of a Rotary Printing Machine.
- 5. Attempt any FOUR of the following: 16**
- a) Explain the process of dyeing of acrylic fibres with cationic dyes.
 - b) With a well labelled diagram, explain the principle construction and working of padding mangle.
 - c) Describe “Resist” style of printing with an appropriate example.
 - d) Explain “resin finish” application process on cotton and its blends.
 - e) Describe the application process and the significance of “Soil-Release” finish.
 - f) Explain in detail about the “Flat-bed” printing machine.
- 6. Attempt any FOUR of the following: 16**
- a) Explain the classification of colouring matter based on applications.
 - b) Mention the principle and describe the methods for assessment of ‘washing fastness’.
 - c) Describe process for dyeing polyester/cotton blend fabric.
 - d) Distinguish between “yarn dyeing” and “fabric dyeing” process.
 - e) What is BAN? How it is determined?
 - f) With neat sketch explain the working of sanforizing machine in finishing.
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