

315390

12526

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) Define the term “Enzyme”.
 - b) Compare conventional scouring with bio scouring.
 - c) Compare cold brand and hot brand reactive dyes.
 - d) Define the term “pigment”.
 - e) Compare waterproof finish with water repellent finish.
 - f) Define the term nano fibre.
 - g) Classify antimicrobial finish.
- 2. Attempt any THREE of the following: 12**
- a) State the advantages and limitations of super critical carbon dioxide dyeing.
 - b) Describe the concept of washing online system.
 - c) Describe the concept of auto matching of screens.
 - d) State the advantages of polyurethane in coating.

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- 3. Attempt any THREE of the following: 12**
- a) State the advantages and disadvantages of enzymes in textile processing.
 - b) Describe the method to improve fastness properties of natural dyes.
 - c) Explain the working of washing online system.
 - d) State the advantages of multifunctional finish.
- 4. Attempt any THREE of the following: 12**
- a) Classify the enzymes on the basis of application for textiles.
 - b) Explain the recent development in vat dyes.
 - c) Explain the working of laser engraving of the screens.
 - d) Describe the working of low liquor padding mangles.
 - e) Describe the concept of super hydrophobicity and lotus effect.
- 5. Attempt any TWO of the following: 12**
- a) Illustrate the mechanism of enzyme action during desizing of 100% cotton fabric.
 - b) Demonstrate the working of auto dosing system used in dyeing.
 - c) Formulate recipe to get water and oil repellency on 100% cotton fabric.
- 6. Attempt any TWO of the following: 12**
- a) Justify the statement “Bio-Technology is advanced technique for processing of Textiles”.
 - b) Explain the working of unique nozzles for uniform temperature in stenters.
 - c) Select the relevant method with process parameter to produce UV protection finish.
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