

# 17567

**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 FIVE of the following:** **20**
- a) Give the definition of “process” and “quality control”.
  - b) What is the necessity of process control.
  - c) State different process control parameters in singeing and desizing.
  - d) State the production norms of package dyeing and soft flow dyeing machines.
  - e) State process control parameters for rotary screen printing machine.
  - f) State various testing methods in finishing for quality.
  - g) State various testing methods in pre-treatment for quality.

P.T.O.

- 2. Attempt any TWO of the following: 16**
- a) State and explain process control parameters for stenters and calender m/c.
  - b) State and explain the process parameters to be controlled in scouring, bleaching of cotton.
  - c) Describe measures to achieve RFT dyeing.
- 3. Attempt any TWO of the following: 16**
- a) Define 'quality'. Explain the importance of quality assurance.
  - b) State and explain process control parameters for flat bed screen printing machine.
  - c) State and explain production norms of stenter sanforising, calendering and drying range.
- 4. Attempt any TWO of the following: 16**
- a) State and explain different practical problems and their remedies in pre-treatments for textiles.
  - b) Describe methods of testing Barium activity number and Fluidity value.
  - c) Give methods of testing iodine absorption and crease recovery angle in finishing for quality.
- 5. Attempt any TWO of the following: 16**
- a) Describe the methods of testing Washing and Rubbing fastness of dyed fabric.
  - b) State and explain existing quality norms for Eco-finishing of textiles.
  - c) Explain test methods of evaluating light fastness and perspiration fastness of dyed sample.

**6. Attempt any TWO of the following:****16**

- a) Describe testing methods for whiteness and ash content.
  - b) Discuss the problems and their remedies in polyester dyeing process.
  - c) (i) State production norms of printing process.  
(ii) What is the significance of stenter machine in finishing process?
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