

17567

**21819**

**3 Hours / 100 Marks**

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
  - (2) Illustrate your answers with neat sketches wherever necessary.
  - (3) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE :**

**20**

- (a) State the object of process and quality control in wet processing.
- (b) Explain any two problems and their remedies in pre-treatments of fabric.
- (c) What is mercerisation ? Explain the changes brought about by mercerisation.
- (d) List the process control parameters in continuous dyeing range.
- (e) Give the process control parameters of flat bed printing machine.
- (f) Explain process control parameter of sanforising machine with its advantages.
- (g) Write the general procedure for checking washer fastness.

**2. Attempt any TWO :****16**

- (a) Describe the term 'Quality control'. Explain the importance of quality assurance with structure and functions of quality assurance department.
- (b) With neat sketch explain the construction and working of Jigger dyeing machine. Explain its process control parameters for dyeing process.
- (c) Describe the testing method for determination of crease recovery angle of finished fabric. Write its importance with standard norms.

**3. Attempt any TWO :****16**

- (a) Explain the process control parameters in singeing and desizing department.
- (b) What is RFT ? How it is achieved in dyeing process ? Explain the problems and remedies in dyeing department.
- (c) Explain the importance of light fastness properties for Dyed and Printed fabrics. Explain the methods used for light fastness testing and assessment.

**4. Attempt any TWO :****16**

- (a) Explain in detail the process control parameters in scouring and bleaching department of cotton fabric processing.
- (b) Write various applications of Stenter. Explain the working of Stenter machine in finishing of the fabrics.
- (c) Explain the procedure for checking :
  - (i) Barium activity number and
  - (ii) Whiteness of the fabrics.

**5. Attempt any TWO :****16**

- (a) Explain the working of Rotary printing machining with process control parameters.
- (b) What is calendaring ? Describe process control parameters of calendaring machine.
- (c) What is copper number ? How it is determined ? Write its importance with specific norms.

**6. Attempt any TWO :****16**

- (a) Explain the problems and remedies in rotary printing process. Also state advantages and disadvantages of rotary printing machine.
  - (b) Explain the testing methods for coloured fabrics :
    - (i) Rubbing fastness
    - (ii) Sublimation fastness
  - (c) Write the standard norms with procedures of the testing methods as :
    - (i) Iodine absorption
    - (ii) Bending length of the fabric
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