

314359

24225

03 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 answers 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) Enlist the objectives of inspection of Grey fabric.
  - b) State the concept of 4-point inspection system of fabric checking.
  - c) State the properties of direct dyes.
  - d) State the concept of “Percentage Shade” in dyeing.
  - e) State the objectives of printing.
  - f) Enlist the list of ingredients used for printing paste.
  - g) Enlist the different types of printing.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Give the classifications of direct dyes.
  - b) Describe the dyeing process for cotton fabrics with not brand reactive dyes.
  - c) Describe the dyeing procedure for wool fabric using acid dyes.
  - d) Give the detailed classification of textile finishing processes.
- 3. Attempt any THREE of the following:** **12**
- a) Write a note on gas singing machine w.r. to construction and principle.
  - b) Describe the application method of vat dyes on cellusic fabric by exhaust method.
  - c) Give the detailed classification of reactive dyes based on their application methods.
  - d) Describe the mechanism and process of dyeing of polyester fabric.
- 4. Attempt any THREE of the following:** **12**
- a) i) Enlist the objectives of shearing and cropping process.  
ii) Enlist the objectives of Mercerization.
  - b) Write a note on heat setting process with it's advantages.
  - c) Reactive dye chemically bond with fibre. Justify the statement with example.
  - d) Distinguish between the advantages of HTHP dyeing over carriers dyeing.
  - e) Describe the application process of acid dyes on silk fabric.

**5. Attempt any TWO of the following: 12**

- a) Explain the enzymatic desizing process by batch wise process.
- b) Describe the method of application of cold brand reactive dyes on cotton fabrics.
- c) Explain the principle and process of discharge style of printing.

**6. Attempt any TWO of the following: 12**

- a) Explain the working of any one calendering machine with suitable sketch.
  - b) Explain with neat diagram the technical features of rotary screen printing machine.
  - c)
    - i) Classify the different types of softeners with their properties.
    - ii) Describe the mechanism of creasing and resin finishing for cellulosics.
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