

22367

22232

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 answers with neat sketches wherever necessary.
  - (4) Figures to the right indicate full marks.
  - (5) Assume suitable data, if necessary.

**Marks**

**1. Attempt any FIVE :**

**10**

- (a) State the objectives of grey inspection.
- (b) Draw neat labelled sketch of winch machine.
- (c) Write classification of reactive dyes.
- (d) List names of four dyes used for nylon dyeing.
- (e) State the objective of printing.
- (f) List 'methods' of printing.
- (g) Name four finishing machines.

**2. Attempt any THREE :**

**12**

- (a) Describe with neat outline sketch working of gas singeing machine.
- (b) With neat outline sketch, explain working of continuous bleaching range.
- (c) Describe procedure for dyeing of cotton fabric with direct dyes.
- (d) Explain the functions of four printing paste ingredients.



- 3. Attempt any THREE :** **12**
- (a) Describe scouring of cotton fabric by batchwise method.
  - (b) Explain with flow chart pretreatment process of PET fibres.
  - (c) Describe dyeing of cotton fabric with vat dye ( $I_W$  class) by exhaust method.
  - (d) Describe dyeing of Nylon with acid dyes.
- 4. Attempt any THREE :** **12**
- (a) Give the procedure for applying metal complex dyes to dye nylon fabric.
  - (b) Describe dyeing of polyester fabric using disperse dye by carrier method.
  - (c) Suggest The procedure for dyeing of wool with basic dyes.
  - (d) Describe the mechanism of pigment printing.
  - (e) Explain the mechanism of resin finishing.
- 5. Attempt any TWO :** **12**
- (a) Compare advantages of HTHP dyeing over carrier dyeing.
  - (b) Apply resist style of printing to produce white resist on reactive dyed fabric.
  - (c) Justify the statement. 'Resin finished garments dosen't need ironing'.
- 6. Attempt any TWO :** **12**
- (a) Demonstrate construction of calendering machine to produce gloss (shine) on calendered fabric.
  - (b) 'Reactive softner produce permanent softening.' Justify the statement.
  - (c) Explain the importance of squeeze system in rotary printing.
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