

17466

21819

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) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any TEN of the following: **20**
- List the type of dyes used for dyeing silk fibres.
 - Define yarn and fabrics.
 - Draw a neat labeled sketch of three bowl padding mangle
 - List out the machineries used for drying yarn.
 - What are direct dyes.
 - State four advantages of rotary printing machine.
 - Define pigment with two examples.
 - Define the term printing
 - Write a note on the different styles of printing
 - State two limitations of flat bed printing machine
 - State two object of finishing

P.T.O.

- l) Define the term “calendaring”. Why is it necessary?
- m) What is heat setting?
- n) Write two examples of each of chemical and mechanical finishes.
- o) Enlist any four finishes applied on silk.

2. Attempt any FOUR of the following: 16

- a) Write down the procedure of dyeing acrylic fibres with cationic dyes. Also mention the machineries that can be used for dyeing.
- b) Write down the procedure for dyeing of cotton fabric with sulphur dyes.
- c) Explain the construction of Jigger dyeing machine with a neat sketch.
- d) Explain the process of printing of cotton fabric with vat dyes by direct style.
- e) Describe the method of applying “Resin finish to cotton”.
- f) Describe the working of sanforizing machine. Write its working principle.

3. Attempt any FOUR of the following: 16

- a) Explain different methods of dyeing of polyester using disperse dyes.
- b) Write the advantages and limitation of using reactive dyes in textile dyeing
- c) Distinguish between which dyeing machine and jet dyeing machine
- d) Describe how to prepare pigment paste for printing of cotton fabric.
- e) Describe the method of “water proof” finishing of cotton.
- f) Describe the method of yarn mercerisation.

- 4. Attempt any FOUR of the following; 16**
- Describe the method of dyeing nylon with disperse dyes.
 - What are Vat dyes explain their classification with their dyeing and vating conditions.
 - Describe the working principle of winch dyeing machine with a neat sketch.
 - State four differences between fibre dyeing and yarn dyeing
 - Describe resist style of printing in detail
 - Describe the construction and working of flat bed printing machine. State two advantages.
- 5. Attempt any FOUR of the following: 16**
- Explain the procedure for dyeing cotton fabric with direct dyes. Write any two advantages of direct dyeing .
 - Write the classification of reactivities dyes also mention the reactive group present in each class.
 - Distinguish between water proof finish and water repellent finishes.
 - Draw a labeled diagram of Schriener Calendar and write its significance.
 - Explain the principle of optical brightening of the textile fibres. Write the method of application of optical brightener on cotton fabric.
 - Draw a labeled diagram of a vertical drying range and write its working principles.

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

- a) Explain the following:
 - (i) Dyeing of Polyester cotton blends
 - (ii) Dyeing of cotton with reactive dyes.
 - b) Explain the construction and working of package dyeing machine with a neat labeled diagram.
 - c) Describe the construction and working of Rotary screen printing machine. Write the advantages and limitations (State any two points from each).
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