

314357

12526

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--

-
- Instructions* – (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answer 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) Draw neat labelled diagram of shearing and cropping machine.
- b) State the temperature of acid and enzyme desizing.
- c) State the MLR of jigger and kier machine.
- d) Compare lab recipe formulation with bulk recipe formulation.
- e) List the properties required for thickeners for printing.
- f) Define the term “Percentage expression”.
- g) Name any two cross linking agent used in resin finishing.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Define the term “Quality”. State the characteristic of quality.
 - b) Describe process control parameter for Kier machine.
 - c) State any four problem and remedies in dyeing of cotton.
 - d) State any four problem and remedies in printing of cotton.
- 3. Attempt any THREE of the following: 12**
- a) Describe any four problem and remedies in singeing of cotton.
 - b) Describe with neat sketch, the process control parameter for jet dyeing machine.
 - c) Describe the pigment printing process of cotton fabric.
 - d) Describe the procedure to measure bending length of finished fabric.
- 4. Attempt any THREE of the following: 12**
- a) Explain an approach of an engineer towards process control.
 - b) Describe process control parameter for enzyme desizing.
 - c) Select process control parameter for continuous dyeing of cotton.
 - d) Prepare a print paste formulation for direct style printing of cotton with reactive dyes. State the functions of each ingredient.
 - e) Describe process control parameter for Sanforiser machine.
- 5. Attempt any TWO of the following: 12**
- a) Explain BAN test method for evaluation of efficiency of mercerisation.
 - b) Choose process control parameter in dyeing of cotton with reactive dye in jigger machine.
 - c) Explain the process control parameter for stenter machine.

314357

[3]

Marks

6. Attempt any TWO of the following:

12

- a) Suggest the process control parameter in bleaching of cotton to avoid uneven bleaching.
 - b) Explain the process control parameter for rotary printing machine.
 - c) Explain flammability test method for evaluation of efficiency of flame retardancy.
-