17567

16172

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.

Marks

1. Attempt any ten:

20

- a) Define "Quality" and give its significance.
- b) Give the process control parameters used in the Desizing department.
- c) What are the production norms and check points used in the package dyeing machines.
- d) List the various problems of the dyeing of textiles.
- e) Explain the importance of process control in industries.
- f) What are the production norms of the printing process?
- g) Describe the term "Carboxyl group content". Give its testing method norms.
- h) What are the norms for the "Rubbing fastness" test of textiles?
- i) What are the process controls in various finishing machines?
- i) Describe the terms process control.
- k) What are the norms for testing the "perspiration fastness" of textiles?
- 1) What is the significance of quality control in finishing?
- m) State the production norms of a stenter and sanforising machines.
- n) What are the norms for the "Sublimation fastness" test of textiles?

2. Attempt any four:

16

- a) Describe the objectives of process and quality control in industries.
- b) Explain the various process control parameters in the "singeing" department.
- c) Describe the use of different process control parameters for "Jiggers" and "padding mangles".
- d) Explain the structure and functions of the quality assurance department.
- e) Describe the various problems and their remedies occurring during pretreatments of textiles.
- f) Explain the working of jet dyeing machine and also give its process control parameters.

Marks

3. Attempt any four:

16

- a) What do you understand by "Quality Assurance"? Explain its importance.
- b) Explain the various production norms and check points used in the scouring and bleaching process.
- c) Describe the various measures to be taken to achieve "Right First Time" dyeing.
- d) Explain the various process control parameters used in the Flat bed screen printing machine.
- e) Explain the different process controls in stenters and calendering machines of the finishing department.
- f) Describe the different process control parameters deployed in a Continuous Bleaching Range (CBR).

4. Attempt any four:

16

- a) Explain the various problems and the remedies in printing of textiles.
- b) Explain the different process control parameters of sanforising machines and drying range.
- c) Describe the term "Barium activity no" and give its norms for quality control.
- d) Explain the norms and the testing method of "measuring" "Bending length" for quality in finishing.
- e) Describe the rotary screen printing machine along with its process control parameters.
- f) Describe the method for testing "Crease Recovery angle". Also give the various norms required for the above test.

5. Attempt any four:

16

- a) Explain the problems encountered in the finishing of textiles, also give the remedies to rectify or avoid the problems.
- b) Explain the "Washing fastness" test for textiles. What are the norms used for this test?
- c) Explain the norms and the method of testing "Axial Ratio" and "Weight loss".
- d) Describe the method for determination of "Iodine absorption" and state its norms.
- e) Describe the method for determination of "Light fastness" along with its norms for quality testing of textiles.
- f) Explain the testing methods for determination of whiteness index also state its significance.

6. Attemptany four of the following:

16

- a) Describe the method for checking efficiency of singeing process.
- b) What is lab to bulk recipe formulation? How it is carried out?
- c) Enlist the various process parameters in printing department.
- d) What is sanforising? State its process control parameter.
- e) Describe the method for determination of 'cupra ammonium fluidity'.
- f) What is sublimation? Explain the method for determination of sublimation fastness.
