



17567

15116

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) *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** :

20

- a) Differentiate between process control and quality control.
- b) What are the major areas of process control in pretreatments of textiles ?
- c) Enlist and explain the process control parameters on Jigger dyeing machine.
- d) Write a note on the test for suitability of thickness in print paste formulation.
- e) Explain the Iodine absorption test for the evaluation of degree of resin cross linking.
- f) Enlist and explain the quality control measures in desized fabrics.
- g) Write down the procedure of determining the dimensional stability of fabrics.

2. Attempt **any four** :

16

- a) Enlist and explain in brief the process control parameters in scouring department.
- b) Explain the process control parameters in discharge and resist style of printing.
- c) What are the various process control parameters on calendering machine ? Explain.
- d) Explain barium activity number test.
- e) Write down the procedure of determining colour fastness to perspiration.
- f) What is crease recovery angle ? Give its significance ? Write the procedure of determining CRA.

3. Attempt **any four** :

16

- a) Justify the importance of quality assurance department in an industry.
- b) Enlist and explain the process control parameters in singeing department.

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- c) What are the process control parameters in package dying machines.
- d) What are the production norms of flat bed screen printing machine ?
- e) What are stenters ? Mention and explain the process control parameters for stenter.
- f) Explain the axial ratio and deconvolution count method of checking the efficiency of mercurisation.

4. Attempt any four :**16**

- a) Why is process control necessary ? Justify its importance in the two examples.
- b) Compare any four process control parameters of continuous dyeing range with soft flow dying machine.
- c) Enlist any four problems and its remedies in brief on a rotary screen printing machine.
- d) Explain the procedure for determining the copper number ? Give its significance.
- e) What are Grey scales ? Explain its significance in determining the colour fastness to various agencies.
- f) What is bending length ? Give its significance and write its procedure with the help of a neat diagram.

5. Attempt any two :**16**

- a) Draw the structure of a quality assurance department. Enlist its functions and describe its method of working.
- b) Enlist any two problems each in designing, scouring, bleaching and mercurising departments. Write the remedies of the same.
- c) Write a detailed note on the determination of colour fastness to light by British standard. Explain the different conditions of determining the colour fastness to washing.

6. Attempt any two :**16**

- a) Write a detailed note on RFT dying concept. Explain its importance in a organisation. What are the various measures for achieving RFT ?
 - b) Enlist and explain the various process control parameters on stenters, sanforiser and dying range.
 - c) Write a detailed note on the quality control measures for :
 - i) Water proof and water repellent finishes
 - ii) Flame proof finishes
 - iii) Tear and tensile strength of textiles.
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