

Scheme – I

Sample Question Paper

Programme Name : Diploma in Textile Technology
Programme Code : TC
Semester : Third
Course Title : Technology of Textile Pretreatments
Max. Marks : 70

22360

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FIVE of the following.

10 Marks

- a. State the importance of Sizing.
- b. List the four types of singeing methods.
- c. List any four Mechanical pretreatments.
- d. Classify desizing methods of cotton.
- e. State the purposes of scouring cotton.
- f. State the importance of bleaching.
- g. List the objects of mercerization of cotton .

Q.2 Attempt any Three of the following.

12 Marks

- a. Describe in sequence, the process of determining moisture content in starch
- b. Describe with neat sketch, the construction and working of a Gas singeing machine.
- c. Describe the method of evaluating desizing efficiency of cotton
- d. Explain any four factors affecting the process of enzymatic desizing.

Q.3) Attempt any Three of the following.

12 Marks

- a. Select the ingredients of size paste formulation for sizing of 20's Ne cotton fabric with justification.
- b. Describe the method of evaluating the efficiency of Scouring.

- c. Describe with sketch the process of crabbing of wool.
- d. Suggest the precautions to be taken during the bleaching of cotton using hydrogen peroxide.

Q.4) Attempt any Three of the following.

12 Marks

- a. Compare any four points between sodium hypochlorite and hydrogen peroxide bleaching.
- b. Describe the mechanism of bleaching of cotton with hydrogen peroxide.
- c. Describe any four factors affecting the mercerization of cotton fabric.
- d. Select the process parameters for the mercerization of cotton with liquid ammonia with proper justify.
- e. Describe with a sketch the process of pad – chain mercerization of cotton.

Q.5) Attempt any Two of the following.

12 Marks

- a. What are the acceptability criteria in four point system for the inspection of grey fabric? Comment on the fabric flaws in terms of points
- b. Suggest the process parameters of enzymatic desizing of cotton with justification.
- c. Suggest the relevant method of scouring of polyester & polyester-cotton blend.

Q.6) Attempt any Two of the following.

12 Marks

- a. Justify with reactions, the process involved in the scouring of cotton.
- b. Describe any one method of bleaching of wool & silk.
- c. Describe with neat sketch mercerization of knitted cotton fabric.

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Sample Test Paper - I

Programme Name : Diploma in Textile Technology
Programme Code : TC
Semester : Third
Course Title : Technology of Textile Pretreatments
Max. Marks : 20

22360

Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
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- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

08 Marks

- a. State the importance of sizing.
- b. List any four ingredients of size paste.
- c. State the importance of singeing.
- d. Define the term desizing.
- e. Classify the methods of desizing.
- f. List any four faults which may be present in grey fabric.

Q.2 Attempt any THREE.

12 Marks

- a. Describe the construction and working of a gas singeing machine with a labelled diagram.
- b. Explain the method of evaluating desizing efficiency.
- c. Identify the size present on cotton fabric using a relevant method.
- d. Select with justification the ingredients of size paste formulation for 20's Ne cotton yarn.
- e. Suggest the relevant procedure of enzymatic desizing with its merits and demerits.

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- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

08 Marks

- a. State the importance of scouring of cotton.
- b. List the methods used for degumming of silk.
- c. State the purpose of bleaching.
- d. Name any four oxidising bleaching agents.
- e. State the importance of mercerization.
- f. State the factors affecting mercerization process of cotton.

Q.2 Attempt any THREE.

12 Marks

- a. Describe the various reactions involved in the scouring of cotton.
- b. Compare sodium hypochlorite and hydrogen peroxide bleaching.
- c. Describe the process of crabbing of wool with a neat sketch.
- d. Summarise the advantages and limitations of H₂O₂ bleaching.
- e. Explain the effects of mercerization process on properties of cotton fibre.