17469

14115

3 Hours / 100 Marks **Seat No.** | | | | | | | | |

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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE : **20**

(a) What are objects of finishing ? Give the classification of finishing processes for textiles.

(b) Differentiate between cationic softeners and anionic softeners.

(c) What is the object of resin finishing ? Explain the mechanism of creasing resin finishing.

(d) What is the objective of optical brightening of textiles ? Write down the properties of optical brightening agents.

(e) What is LOI ? Enlist LOI values for various textile fibres alongwith its importance.

(f) Describe the properties of a good antimicrobial finish.

(g) What are special finishes for textiles ? Enlist the names alongwith their properties.

2. Attempt any TWO : **16**

(a) With suitable diagram, describe the working of sanforising machine with its advantages and limitations.

(b) Explain the classification of softeners with suitable examples and their properties with respect to textile finishing.

(c) What is flame retardancy ? Describe the evaluation of flame retardancy by angular test method.

3. Attempt any FOUR : **16**

(a) Explain the concept of percentage expression and weight pick-up in padding mangle.

(b) Write down the advantages and limitations of resin finishing.

(c) Explain the methods of applications of optical brightening agents on cotton fabric.

(d) Give the classification of flame retardants with suitable examples.

(e) Compare between waterproof finishing and water repellent finishing on textiles.

(f) Explain the process of moth proofing for wool fabric.

4. Attempt any FOUR : **16**

(a) With suitable diagram, explain the working of any one type of calendaring machine.

(b) Explain the method for evaluation of crease recovery angle and DP rating.

(c) Write down the general recipe for resin finishing and role of catalyst in resin finishing.

(d) Explain the essential requirements of a good flame retardant. Enlist the names of good flame retardants.

(e) Write down the objects, requirements and mechanism of antimicrobial finishing for textiles.

(f) What is the concept ‘Biopolishing’ ? How it is carried out on cellulosic fabrics ?

5. Attempt any TWO : **16**

(a) Explain in detail the importance of stenter machine in textile finishing. Describe the working principle of stenter machine with its advantages and limitations.

(b) Explain in detail the classification of stiffeners with suitable examples and their applications on textiles.

(c) Explain the classification and properties of resins and write down their chemical structures.

6. Attempt any FOUR : **16**

(a) Enlist the softners used for cotton and explain their application methods for it.

(b) What is the concept of eco-friendly cross linking agents ? Enlist the names alongwith their properties.

(c) Explain the method for stripping of OBA from textiles.

(d) What are various factors affecting of flame retardancy ?

(e) Explain the method for evaluation of antimicrobial finishes for cotton and enlist the names of them.

(f) Explain the concept Nano-finishes for textiles with suitable examples.

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