



17566

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

Marks

1. Attempt **any five** :

20

- a) State the importance and objects of heat setting process in finishing.
- b) Why do synthetic fabrics require heat setting ? Enlist various synthetic fabrics and their heat setting temperatures.
- c) State the mechanism of pilling and factors affecting the pilling property of the fabric.
- d) Define the term foam. What is blow ratio ? How it is calculated ?
- e) State the importance and objects of soil release finishing.
- f) Explain the finishing sequence for special sorts.
- g) Explain the silk finish process for polyester fabric.

2. Attempt **any two** :

16

- a) Describe the various types of heat setting process and structural changes brought about by heat setting.
- b) Explain various physical and chemical methods applied on the fabrics to minimize pilling.
- c) State the factors affecting the stability of foam and explain the methods of foam application on textiles.

3. Attempt **any four**:

16

- a) Explain the heat setting conditions for 100% polyester and polyester/cotton blend fabrics.
- b) What is pill ? How it affects on the fabric appearance and finish property of the fabric ?
- c) Explain the method for evaluation of efficiency of soil release finish.
- d) Describe the process sequence parameters during finishing of knitted goods.
- e) State the concept of macro, micro and nano emulsions for textile finishing.
- f) Explain the process for stone wash effect on denim garments.

P.T.O.

**4. Attempt any four :**

- a) Explain the mechanism of heat setting and stages of heat setting treatments for synthetics.
- b) Give the definition of soil. What are various types of soils ? Write down the mechanism of soiling on the textiles.
- c) Describe the various factors affecting soiling of the fabrics.
- d) Explain the finishing of micro denier polyester fabric.
- e) What are various types of machineries used for textile finishing ? Describe any one of them.
- f) What is biopolishing ? How is it carried on textile fabrics ?

5. Attempt any two :**16**

- a) Explain the process parameters and method of evaluation for efficiency of heat setting by shrinkage method.
- b) Explain the importance of foam finishing for various textile fabrics. Write down the advantages and limitations of foam finishing.
- c) Explain in detail the applications of nano technology in textile finishing. Write down its advantages and limitation.

6. Attempt any four :**16**

- a) Explain the properties of foam and the stability of foam.
 - b) Write about various types of soil release finishing agents and their application methods for textiles.
 - c) Describe the finishing process for woollen and worsted fabrics.
 - d) Explain the term micro encapsulation in textile finishing.
 - e) Write about latest finishes used in textile market and their advantages over conventional methods.
 - f) State the importance of stenter machine in finishing process with its advantages and limitations.
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