



# 17576

**15162**

**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.*

**Marks**

- 1. Attempt any five of the following :** **20**
- a) State and explain objects of finishing.
  - b) Give brief classification of finishing treatments.
  - c) Describe the terms :
    - 1) % expression
    - 2) exhaustion with suitable example.
  - d) Explain the softening treatment by using cationic softeners.
  - e) Give the process flow for finishing of Denim goods.
  - f) With neat sketch explain working of tumble dryer.
  - g) Describe various types of stains on textile goods.
- 2. Attempt any four of the following :** **16**
- a) With neat sketch explain Schriener's calendering treatments.
  - b) Describe the objects of heat setting treatment.
  - c) Explain the concept of spraying technique in finishing, also give its applications and advantages also.
  - d) Differentiate between pre-cure and post-cure resin finishing.
  - e) State the object of antimicrobial finishing and give one application of it.
  - f) Describe the objects of speciality finishes.
- 3. Attempt any four of the following :** **16**
- a) With neat sketch explain the objects of sanforising treatment.
  - b) What is crabbing of wool ? Explain one treatment for crabbing.
  - c) Give classification of softening treatments.

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- d) Describe the objects of flame retardant finishes and give one formulation.
- e) Explain mechanism of resin finishing treatment.
- f) State the objective of tin weighting of silk and suggest one treatment method.

**4. Attempt any four of the following :**

**16**

- a) State advantages and limitations of stone washing treatments.
- b) Describe Whiskering treatment for denims.
- c) State and explain the objective of sand blasting treatment.
- d) Explain chalk wash treatment for denims and state its advantages.
- e) With neat sketch explain working of hydroextractor.
- f) Explain working procedure of garment dyeing machine.

**5. Attempt any four of the following :**

**16**

- a) Explain the concept of bio-polishing treatment.
- b) Describe the puckering effect in garments.
- c) Describe ion wash treatment and state its advantages.
- d) Explain enzyme wash treatment of denim goods.
- e) Explain various types of curing cabinets used in denim processing units.
- f) With neat sketch explain working of fusing machine.

**6. Attempt any four of the following :**

**16**

- a) Explain working of pressing machine with neat sketch.
  - b) State the applications of brushing mannequins and spray booth systems.
  - c) State the objects of fragrance finishing and enlist four fragrance finishes applications.
  - d) Explain the concept of nano finish.
  - e) Enlist four types of stains and their stain removing agents/chemicals.
  - f) Write a note on various types of stain removal techniques.
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