



17576

14115

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

MARKS

1. Solve **any 5** of the following : **20**
 - a) Define % exhaustion, % expression. Write their importance in finishing.
 - b) Compare advantages of silicone softener over other softeners.
 - c) State the objects of resin finishing.
 - d) Explain the advantages and disadvantages of stone wash.
 - e) Write the examples of stoneless stone wash. Which fabrics are given these type of washes ?
 - f) Explain limitations of sand blasting process.
 - g) Enlist any four machines with their objects used in garment processing unit.

2. Solve **any 2** of the following : **16**
 - a) Describe objects of finishing. Give classification of finishes with examples.
 - b) Explain objects of calendering, sueding. Describe working principle of calendering m/c.
 - c) Describe with neat, labelled sketch the working of decatising and sanforising m/c.

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3. Solve **any 2** of the following : **16**
- a) State the objects of softeners. Write important properties of cationic and nonionic softeners.
 - b) Explain mechanism of resin finishing. State important ingredients in resin finish bath with general recipe for finishing of shirting fabrics.
 - c) Explain objects and end uses of
 - a) Flame retardant finish and
 - b) Antimicrobial finish.
4. Solve **any 2** of the following : **16**
- a) Describe the process sequence for finishing of denim. Explain the process of acid wash.
 - b) Explain the process of enzyme wash. Write advantages and limitations of enzyme wash.
 - c) What is puckering effect ? Write the process of mud wash and ion wash.
5. Solve **any 2** of the following : **16**
- a) Describe principle and working procedure of garment dyeing machine.
 - b) Describe principle and working procedure of tumble drier. How it is different from stenter ?
 - c) Explain the role of curing cabinets, washing machine, brushing mannequins and spray booth systems for obtaining novel effects in garment processing.
6. Solve **any 2** of the following : **16**
- a) Define 'stain'. Write any four types of stain with appropriate technique used for their removal.
 - b) Write advantages of nano finishes over conventional finishes. Explain the method of application for nanofinishes.
 - c) State objects of UV-protection finish and fragrance finish. Where these finishes are used ? Write the limitations of these finishes.
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