

# 22572

**12425**

**03 Hours / 70 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. Attempt any FIVE of the following:** **10**
- a) Enlist the types of mechanical finishing of fabrics.
  - b) Define ‘Sanforizing’ of Textile fabrics.
  - c) State the objective of scroopy finishing.
  - d) Define ‘enzymes’.
  - e) Define ‘whiskering’ effect an indigo jeans.
  - f) Give the concept of photochromic printing.
  - g) Name the application methods in flock printing.
- 2. Attempt any THREE of the following:** **12**
- a) State the changes in polyester fabric after heat-setting.
  - b) Explain the mechanism of water repellent finish.
  - c) Compare cationic softener with anionic softener.
  - d) State the objects of antimicrobial finishing.

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- 3. Attempt any THREE of the following: 12**
- a) Draw a neat labelled diagram of sanforizing m/c and explain its working principle.
  - b) Suggest the recipe, process parameters and procedure for application of resins on 100% cotton fabric.
  - c) Analyse the effect of biopolishing on cotton fabric.
  - d) Suggest the stone wash procedure for denim jackets.
- 4. Attempt any THREE of the following: 12**
- a) Describe the working of compacting finishing m/c for wollen fabrics with process parameters.
  - b) Give the end uses (applications) of -
    - i) Tumble dryers
    - ii) Spray booth systems
  - c) Enlist any 4 advantages and disadvantages of drum garment dyeing m/cs.
  - d) Explain the features of Flock printing machine.
  - e) Suggest the method to check perspiration fastness of garments.
- 5. Attempt any TWO of the following: 12**
- a) Suggest the suitable procedure to apply following stoneless finishes on denim jeans -
    - i) Ion wash
    - ii) Chalk wash
  - b) Elaborate on application of -  
Rotary drum dyeing m/c for garment dyeing with its precaution and parameters.
  - c) Describe the application of -
    - i) Conveyor belt fusing m/c
    - ii) Steam pressing m/c

**6. Attempt any TWO of the following:****12**

- a) Elaborate on 'Puff Printing' on following points -
    - i) Chemicals used
    - ii) Mixing method
    - iii) Equipment used
  - b) Elaborate on industrial dry-cleaning method with recipe and procedure.
  - c) Suggest the stain removers for following stains -
    - i) Ball pen
    - ii) Tea
    - iii) Grease
    - iv) Lipstick
    - v) Rust
    - vi) Mud
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