

17576

16172

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) Assume suitable data, if necessary.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

20

- (a) State four objectives of finishing.
- (b) Describe the terms :
 - (i) % Expression
 - (ii) Exhaustion
- (c) Give brief classification of softeners & their respective characteristics.
- (d) State advantages and disadvantages of stone wash.
- (e) What is enzyme wash ? Explain its application method.
- (f) Explain the role of spray booth systems in garments processing.
- (g) Enlist any four stains and suggest stain removing agents & techniques for them.

2. Attempt any TWO of the following : 16

- (a) State the object of calendaring. Also with neat sketch explain swizzling calendaring effects.
- (b) Describe mechanism of resin finishing & its application method.
- (c) Explain the concept of (i) Sanforising, (ii) Tin weighting of silk.

3. Attempt any TWO of the following : 16

- (a) Explain the objectives of heat setting treatment. Also state heat setting temperatures for different synthetic fibres. (any 3)
- (b) Describe the mechanism of flame retardant finishing. Also give its recipe for finishing of polyester fabric.
- (c) Explain :
 - (i) Advantages of anti-microbial finish
 - (ii) Puckering effect due to garment washing treatments.

4. Attempt any TWO of the following : 16

- (a) Explain the working principle of garment dyeing machine with neat sketch.
- (b) Describe the mechanism of bio-polishing. Also state its advantages and limitations.
- (c) Explain :
 - (i) Whiskering treatment
 - (ii) Role of curing cabinet in garment washing unit.

5. Attempt any TWO of the following :**16**

- (a) State the objective of stoneless stone wash effect. Also explain mud wash treatment on garments.
- (b) Draw neat sketches & explain the role of
 - (i) Hydro extractor and
 - (ii) Tumble dryer in garment washing unit.
- (c) Describe :
 - (i) Types of washing machines used in garment washing
 - (ii) Fragrance finish

6. Attempt any TWO of the following :**16**

- (a) Explain :
 - (i) Concept of pro-cure and post-cure method.
 - (ii) Significance of brushing mannequins.
 - (b) State objective of Nano-finishes in garment washing also give their advantages and limitations.
 - (c) Explain the method for identification of stain and technique for stain removal.
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