

17342

21819

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.

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| 1. Attempt any FIVE : | 20 |
| (a) Describe method for evaluation of desizing efficiency. | |
| (b) Explain reactions involved during scouring process. | |
| (c) State with reasons, the precaution required to take during scouring of coloured woven goods. | |
| (d) State role of stabilizer and activator in hydrogen peroxide bleaching. | |
| (e) State objects and types of mercerisation process. | |
| (f) Write advantages and disadvantages of hot mercerisation. | |
| (g) Describe degumming of silk by enzyme method. | |
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| 2. Attempt any TWO : | 16 |
| (a) Describe keeping and congealing properly of starches and their significance. | |
| (b) Describe batchwise method of desizing with enzyme. Explain factors affecting the process. | |
| (c) With neat sketch explain construction and working of paddles and chainless mercerisation machine. | |

- 3. Attempt any TWO :** **16**
- (a) Describe with recipes the size paste preparation for cotton and P/C yarns.
 - (b) State objects of desizing. Describe mechanism of desizing process and classification of desizing processes.
 - (c) Describe method to evaluate efficiency of mercerisation process by barium activity number and explain its significance and criteria.
- 4. Attempt any TWO :** **16**
- (a) State the objects of shearing and cropping machine with neat sketch describe construction and working of 4 cutter shearing and cropping machine.
 - (b) With neat sketch describe construction and working of continuous method of scouring machine for cotton. Write its advantages and limitations.
 - (c) Differentiate between caustic soda mercerisation with liquid ammonia mercerisation. Describe advantages and limitations of liquid ammonia mercerisation.
- 5. Attempt any TWO :** **16**
- (a) State object of singeing with neat sketch describe construction and working of gas singeing machine.
 - (b) Describe the procedure with recipe of scouring process for polyester/cotton blended fabric.
 - (c) With respect to energy conservation describe the developments in bleaching processes.
- 6. Attempt any TWO :** **16**
- (a) State importance of grey inspection. Describe four point system of fabric inspection.
 - (b) Differentiate hydrogen peroxide bleaching with sodium hypochlorite bleaching.
 - (c) Describe crabbing and milling processes of wool with suitable recipes.
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