

**THIRD SEMESTER**  
**TEXTILE TECHNOLOGY**  
**SCHEME JULY 2008**  
**WET. PROCESSING (305)**

*Time : Three Hours*

*Maximum Marks : 100*

- Note :** (i) Attempt total *Six* questions. Question No. 1 (Objective type) is compulsory. From the remaining questions attempt any *five*.  
(ii) Draw sketch wherever necessary.

1. Choose the correct answer 2 each
- i) Souring is the process of
- (a) Removing salts deposited on the bleached cloth
  - (b) Removing the size from the cloth
  - (c) Increasing the strength and quality of cloth
  - (d) None of the above
- ii) Transfer printing is ideally suitable for
- (a) Hydrophilic fibre
  - (b) Hydrophobic fibre
  - (c) On both the fibres
  - (d) None of the above

(2)

- iii) Borax is used in finishing of cotton as
- (a) Soil resistant agent
  - (b) Anti Shrink agent
  - (c) Temporary flame proofing agent
  - (d) Water repellent agent
- iv) Quality of mercerisation can be tested by
- (a) Copper No.                      (b) Silver No.
  - (c) Barium activity No.      (d) Fluidity
- v) In case of open kier scouring of cotton cloths the temperature of liquor should be
- (a)  $>100^{\circ}\text{C}$                       (b)  $40^{\circ}\text{C}$
  - (c)  $60^{\circ}-70^{\circ}\text{C}$                       (d) None of the above
2. a) What is the object of desizing? Explain different methods of desizing process.                      12
- b) Sketch the sequence of manufacturing printed cloth on dyed base from grey cloth.                      6
3. a) Differentiate dyeing and printing. What are the different methods of printing? Name them.                      4
- b) Describe in detail the working of roller printing machine with suitable sketch.                      14

(3)

4. a) Explain the object of bleaching process. Describe hydrogen peroxide along with suitable recipe. 12
- b) Compare sodium hypochlorite bleaching with hydrogen peroxide bleaching. 6
5. a) What is the difference between temporary and permanent finish? Explain. 3
- b) Explain flame proof and flame retardant finish. 5
- c) Explain waterproof and water repellent finish. 5
- d) Explain Anti Shrink process of finishing. 5
6. a) What points are to be checked while dyeing cotton cloth in 'vat' colours. Give detailed method of its dyeing with necessary precaution. 12
- b) Describe the composition of cotton. 6
7. a) Explain what is mercerisation process. How you will measure quality of mercerisation. 6
- b) Describe with sketch the working of any mercerisation process used for cotton fabric. 12

(4)

8. Write short notes on any three of the following:

6 each

- a) Gas singeing process with sketch
- b) Azoic dyes and its application on cotton
- c) Scouring in open kier with sketch
- d) Fibre dyeing machine with sketch
- e) Sketch and explain 3 bowl padding mangle

