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**RM-6591**

**B. E. - II (Sem. IV) (Textile Processing) Examination**  
**May / June - 2010**  
**Scouring & Bleaching-I**  
**(Old Scheme)**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृशविक निशानीवाणी विगतो उत्तरवडी पर अवश्य लखवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
B. E. - 2 (Sem. 4) (Textile Process)

Name of the Subject :  
Scouring & Bleaching-I (Old)

Subject Code No. : 6 5 9 1 Section No. (1, 2,.....): 1&2

Seat No. :

Student's Signature

- (2) Answers to the two sections must be written in separate answer books.
- (3) Figures to the right indicate full marks.
- (4) Tie two sections separately.

**SECTION-I**

- 1 (a) Answer the following objective questions : 10
- (1) Sodium salts of higher fatty acids are nothing but \_\_\_\_\_.
  - (2) State the chemical composition of bleaching powder.
  - (3) Scouring process is essential to impart \_\_\_\_\_ to the fabric.
  - (4) What is the dangerous zone of chemicking ?
  - (5) What precautionary measure should be taken before developing the pressure in kier ?
  - (6) For coloured woven fabrics, always vat dyes are recommended - TRUE or FALSE, Justify.
  - (7) Give one example of reducing bleaching agent.
  - (8) Show the reaction scheme of saponification.
  - (9) Give the chemical name of Igepon T.
  - (10) What is the role of sodium silicate in hydrogen peroxide bleaching ?
- (b) Discuss the objective and technological routine of scouring of cotton fabric. 10

- 2 (a) What is chemicking ? Describe the manufacturing, applications and limitations of bleaching powder. 10  
(b) Describe the machine chemicking in pits. 5

OR

- 2 Describe with proper illustration the functions of various ingredients used in scouring process. 15
- 3 Write short notes on any three of the following : 15  
(a) Bromite Desizing  
(b) Tight and slack rope washing machines  
(c) Corrosion problem of sodium chlorite and its remedy  
(d) Classification of FBA.

### SECTION-II

- 4 (a) Answer the following objective questions : 10  
(1) Pectin is present in \_\_\_\_\_ of cotton fibre.  
(2) What is 'PERCHING'.  
(3) \_\_\_\_\_ are also known as colourless dyes.  
(4) State the object of shearing and cropping.  
(5) What is QUENCHING ?  
(6) What are enzymes ?  
(7) \_\_\_\_\_ is made from germinated barley.  
(8) In end-to-end stitching, the thickness near the seam is \_\_\_\_\_ that of the fabric.  
(9) \_\_\_\_\_ machine generally is used for washing of delicate fabrics.  
(10) Sodium chlorite is also known as \_\_\_\_\_.  
(b) Explain in detail various impurities present in grey cotton fabric. 10
- 5 (a) What is Desizing ? Explain 'Enzymatic Desizing' process in detail. 10  
(b) Describe the mechanism of 'Enzymatic Desizing'. 5

OR

- 5 Enumerate different types of continuous bleaching ranges. 15  
Describe with neat diagram the working of 'Harish Conibleach' range.
- 6 Write short notes on any three of the following : 15  
(a) Grey inspection and stitching  
(b) Catalysts in hydrogen peroxide bleaching  
(c) Gas singeing machine  
(d) Scouring.