



SF-6591

**B. E. - II (Sem. - IV) (Textile Processing)
Examination
May/June - 2011
Scouring & Bleaching - I
(Old Scheme)**

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृष्टाविक निशानीवाणी विगतो उतरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
B. E. - 2 (SEM. - 4) (TEXTILE PROCESSING)	<input type="text"/>
Name of the Subject :	<input type="text"/>
SCOURING & BLEACHING - 1 (OLD)	<input type="text"/>
Subject Code No. : <input type="text"/> 6 <input type="text"/> 5 <input type="text"/> 9 <input type="text"/> 1	Section No. (1, 2,.....): <input type="text"/> 1&2
Student's Signature	

- (2) Answer to the two sections must be written in same answer book.
- (3) Figures to the right indicate full marks.

SECTION - I

- 1 (a) Answer the following objective question : 10
- Sodium salts of higher fatty acids are nothing but _____ .
 - State the chemical composition of bleaching powder.
 - Scouring process is essential to impart _____ to the fabric.
 - What is the dangerous zone of chemicking ?
 - What precautionary measure should be taken before developing the pressure in kier ?
 - For coloured woven fabrics, always vat dyes are recommended. - TRUE or FALSE, JUSTIFY.
 - Give one example of reducing bleaching agent.
 - Show the reaction scheme of saponification.

- (ix) Give the chemical name of Igepon T.
- (x) What is the role of sodium silicate in hydrogen peroxide bleaching ?
- (b) Discuss the objective and technological routing 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**
- (i) Pectin is present in _____ of cotton fibre.
- (ii) What is "PERCHING".
- (iii) _____ are also known as colourless days.
- (iv) State the object of shearing and cropping.
- (v) What is QUENCHING ?
- (vi) What are enzymes ?
- (vii) _____ is made from germinated barley.
- (viii) In end-to-end stitching, the thickness near the seam is _____ that of the fabric.
- (ix) _____ machine generally is used for washing of delicate fabrics.
- (x) Sodium chlorite is also known as _____ .
- (b) Explain in detail various impurities present in grey cotton fabrics. **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 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) Souring.
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