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RN-8143

B. E. II (Sem. III) (T.P.) Examination

May / June - 2010

Scouring & Bleaching - I (New Course)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. 2 (Sem. 3) (T.P.)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Scouring & Bleaching - 1 (New Course)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="8"/> <input type="text" value="1"/> <input type="text" value="4"/> <input type="text" value="3"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="1&2"/>	

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

SECTION - I

- 1 (a) Answer the following objective questions : 10
- (i) Soaps are nothing but _____.
 - (ii) Show the reaction scheme of saponification.
 - (iii) Which property to fabric is imparted during scouring process ?
 - (iv) Give the chemical name of Igepon T.
 - (v) What precautionary measure should be taken before developing the pressure in kier ?
 - (vi) For coloured woven fabrics, always vat dyes are recommended - TRUE or FALSE, JUSTIFY.
 - (vii) Give one example of reducing bleaching agent.
 - (viii) State the chemical composition of bleaching powder.
 - (ix) What is the dangerous zone of chemicking ?
 - (x) What is the role of sodium silicate in hydrogen peroxide bleaching ?
- (b) Enlist various ingredients used in scouring. Describe with proper illustration the functions of caustic soda and surface active agents in scouring process. 10
- 2 (a) What is chemicking ? Describe the manufacturing, applications and limitations of bleaching powder. 10

(b) Describe the chemicking in jigger. 5

OR

2 Discuss the objective and technological routine of scouring of cotton fabric. 15

3 Write short notes on any **three** of the following : 15

- (a) Souring
- (b) Tight and slack rope washing machines
- (c) Catalysts is hydrogen peroxide bleaching
- (d) Classification of FBA.

SECTION – II

4 (a) Answer the following objective questions : 10

- (i) Pectin is present in the lumen of cotton fibre. - TRUE or FALSE, Give correct answer if false.
- (ii) What is "PERCHING".
- (iii) In end - to - end stitching, the thickness near the seam is _____ that of the fabric.
- (iv) State the object of shearing and cropping.
- (v) What is QUENCHING ?
- (vi) What are enzymes ?
- (vii) _____ is made from germinated barley.
- (viii) _____ are also known as colourless dyes.
- (ix) _____ machine generally is used for washing of delicate fabrics.
- (x) Textone is nothing but _____.

(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. Describe with neat diagram the working of 'Harish Conibleach' range. 15

6 Write short notes on any **three** of the following : 15

- (a) Grey inspection and stitching.
- (b) Corrosion problem of sodium chlorite and its remedy.
- (c) Gas singeing machine.
- (d) Bromite Desizing.