



RN-8153

B. E. II (Sem. III) (Textile Technology)

Examination

May / June – 2010

Textile Processing - I

(New Scheme)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य कर्णी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> B. E. 2 (Sem. 3) (Textile Technology)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> Textile Processing - 1	<input type="text"/>
Subject Code No. : <input type="text" value="8"/> <input type="text" value="1"/> <input type="text" value="5"/> <input type="text" value="3"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1&amp;2"/>	
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
- Give example of any two natural impurities.
  - Enlist different methods for measurement of efficiency of desizing ?
  - There are three types of impurities in cotton \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
  - Enlist different oxidative desizing methods.
  - What is the purpose of scouring ?
  - Which pre-cleaning process of cotton follows the principle same as the grass cutter ?
  - In gas singeing the rollers are heated with gas burners. TRUE OR FALSE. Justify.
  - Desizing with chlorine is also known as \_\_\_\_\_.
  - For semi-continuous scouring \_\_\_\_\_ system is employed.
  - What is the function of chelating agents in scouring ?
- (b) Explain oxidative desizing methods in detail. 10

- 2 (a) Explain working of shearing and cropping machine with neat sketch. 8
- (b) Describe working of pressure kier with neat diagram. Give recipe for scouring in kier. 7

**OR**

- 2 (a) Enlist objectives of mercerization and explain yarn mercerization in detail. 8
- (b) Describe the role of various ingredients used in scouring. 7
- 3 Write short notes on any **three** of the following : 15
- (a) Lock and Key mechanism
- (b) Vaporloc unit
- (c) Properties and bleaching action of hydrogen peroxide
- (d) Chemicking.

### SECTION – II

- 4 (a) Answer the following objective questions : 10
- (i) Give classification of reactive dyes.
- (ii) Azoic dyes are also known as ingrain dyes. True/False
- (iii) Write name of any two cheese dyeing machines.
- (iv) What is the function of common salt in reactive dyeing ?
- (v) When vat dyes are converted into soluble form, they are called \_\_\_\_\_.
- (vi) Malt enzymes are obtained from vegetables. TRUE OR FALSE. Justify.
- (vii) For scouring in batchwise form which machines are used ?
- (viii) If cotton fabric is mercerized in tension free condition its \_\_\_\_\_ increases.
- (ix) Mercerization process was named after its inventor \_\_\_\_\_.
- (x) Enzymes are \_\_\_\_\_ catalyst.
- (b) Explain working of Winch dyeing machine in detail with neat sketch. 10

- 5 (a) Explain working of jigger dyeing machine in detail with neat diagram. 10  
(b) Give detail classification of vat dye. 5

**OR**

- 5 Describe in detail, various methods for application of reactive dyes on cotton. 15
- 6 Write short notes on any **three** of the following : 15  
(a) Azoic colour  
(b) Application of basic dyes on cotton  
(c) Chlorine desizing  
(d) Plate singeing.

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