



**RN-8133**

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

**May / June - 2010**

**Elements of Textile Technology & Processing**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृशाविले निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. 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="Elements of Textile Technology &amp; Processing"/>	<input type="text"/>
Subject Code No. : <input type="text" value="8"/> <input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="3"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="1&amp;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 :
- (1) Define : Denier and English cotton count. 2
  - (2) Define mixing and blending giving example. 2
  - (3) \_\_\_\_\_ mechanism provided on scutcher makes the lap even and uniform. 1
  - (4) 1 Pound = \_\_\_\_\_ grams. 1
  - (5) Explain the meaning of Ply yarn and Cable yarn. 1
  - (6) What is negative shedding ? 1
  - (7) What is coil angle ? 1
  - (8) What is the function of reed ? 1
- (b) Draw a flow chart for producing combed yarn in spinning department and list out input and output material at each stage. 10
- 2 (a) With a neat sketch, explain any one Bale opening machine. 8
- (b) Describe briefly working of speed frame with neat sketch. 7

**OR**

- 2 (a) State the objects of carding. With a neat sketch explain the process of carding briefly. 10

- (b) Describe briefly construction and working of ring frame with neat sketch. 5
- 3 Write short notes : (any three) 15
- (1) Pirn winding
  - (2) Sizing ingredients
  - (3) Important fabric parameters
  - (4) Tensioner.

## SECTION – II

- 4 (a) Answer the following :
- (1) Pirn winding is not required for modern shuttleless looms. True or False. 1
  - (2) \_\_\_\_\_ removes thick places. 1
  - (3) The maximum number of heald shafts that can be controlled by Dobby is \_\_\_\_\_. 1
  - (4) Only Draw Plain weave and Twill weave. 2
  - (5) State any two bleaching agents. 1
  - (6) Give objects of scouring. 1
  - (7) How rust stains are removed ? 1
  - (8) PH range of Hydrogen peroxide bleaching of cotton is \_\_\_\_\_. 1
  - (9) State the different Oxidative desizing methods. 1
- (b) With a neat sketch, explain any one shedding mechanism. 7
- (c) Explain the terms satin and sateen briefly. 3
- 5 (a) Explain in detail, classification of colouring matters with neat sketch. 8
- (b) Explain hydrogen peroxide bleaching mechanism in detail. 7

## OR

- 5 (a) Discuss the different objects of finishing in detail. 8
- (b) Explain the term 'Souring' in detail. 7
- 6 Write short notes : (any three) 15
- (1) Enzymatic desizing
  - (2) Discharge style of printing
  - (3) Water proof and water repellent finishing
  - (4) Calendering.