



SE-6283

**B. E. II (Sem. - III) (T.T. & T.P.) Examination**  
**April / May – 2011**  
**Textile Fibres**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य बपवी. 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. II (Sem - III) (T.T. &amp; T.P.)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Textile Fibres"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="2"/> <input type="text" value="8"/> <input type="text" value="3"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,...): <input type="text" value="1"/> <input type="text" value="2"/>	

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

**SECTION - I**

- 1 (a) Fill in the blanks : 10
- (1) The only natural bicomponent fibre is \_\_\_\_\_ .
- (2) The only natural filament fibre is \_\_\_\_\_ .
- (3) \_\_\_\_\_ is a natural cellulosic short staple fibre.
- (4) \_\_\_\_\_ is the costliest natural fibre.
- (5) Cotton burns with a \_\_\_\_\_ colour flame.
- (6) PINA is the name for \_\_\_\_\_ fibre.
- (7) \_\_\_\_\_ is also called as China grass.
- (8) Jute fibre is manufactured in \_\_\_\_\_ and \_\_\_\_\_ countries.
- (9) The cross section of polyester fibre is \_\_\_\_\_ .
- (b) Explain in detail the classification of wool fibres by breeds. 10
- 2 Explain in detail the manufacture of SPUN SILK. 15
- OR**
- 2 Explain in detail the different types of minor hair fibres. 15

- 3 Write short notes : (any **three**) 15
- (1) Growth and production of cotton fibre
  - (2) Woolen and worsted yarns
  - (3) Natural mineral fibres
  - (4) Properties of polyester fibre.

### SECTION - II

- 4 (a) Answer the following objective questions : 10
- (1) Polyethylene terephthalate is commercially known as \_\_\_\_\_ .
  - (2) Give two uses of SARAN fibres.
  - (3) Which fibre is also known as syntheric wool fibre ?
  - (4) Melting point of Nylon-6 is \_\_\_\_\_ °C.
  - (5) Give two example of Elastomeric fibres.
  - (6) CASEIN fibre is obtain from \_\_\_\_\_ .
  - (7) Give any two uses of Vinyon fibres.
  - (8) Acrylic fibres are spun by \_\_\_\_\_ or \_\_\_\_\_ methods of spinning.
  - (9) The monomer used in preparation of Nylon 6 is \_\_\_\_ .
  - (10) Define MOD-ACRYLIC fibre.
- (b) Describe in detail various steps involved in manufacturing of Nylon 6 and Nylon 6,6. 10
- 5 (a) Explain with neat flow diagram, the manufacturing of viscose rayon. 10
- (b) Discuss physical and chemical properties of Viscose rayon. 5

### OR

- 5 Explain with neat diagram, the manufacturing of Cuprammonium rayon. Also discuss its various properties in detail. 15
- 6 Write short notes on any **three** of the following : 15
- (a) SARAN fibres
  - (b) Vinyon fibres
  - (c) Polynosic rayon
  - (d) Properties of polypropylene fibres.