



SE-8141

**B. E. II (Sem. III) (T.T. & T.P.) Examination**  
**May / June – 2011**  
**Textile Fibres**  
**(New Course)**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृशावेल निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :

**B. E. 2 (Sem. 3) (T.T. & T.P.)**

Name of the Subject :

**Textile Fibres (New)**

Subject Code No. :  8  1  4  1 Section No. (1, 2,.....) :  1&2

Seat No. :

Student's Signature

1. Answers to the two sections must be written in separate answer books.
2. Figures to the right indicate full marks.
3. Tie two sections separately.

**Section – I**

- 1 a. **State True or False:** (10)
- 1 Asbestos is a mineral fibre.
  - 2 Vicuna is the costliest natural fibre.
  - 3 Merino wool originates from Spain.
  - 4 Retting is done for wool fibre.
  - 5 Jute is grown in West Bengal.
  - 6 Cashmere is got from Kashmir Goat.
  - 7 Cotton has bean shaped cross section.
  - 8 Wool fibre has scales.
  - 9 Silk is a filament fibre.
  - 10 Peptide bonds are present in nylon fibre.
- 1b. Explain in detail the gross morphology of cotton fibre. (10)
2. Explain in detail the manufacture of woollen yarns from wool fibres. (15)
- OR**
2. Explain in detail the growth and production of jute fibre. Explain the properties of jute fibres. (15)
3. Write short notes on **ANY THREE:** (15)
- 1 Minor Hair fibres
  - 2 Classification of Textile Fibres.
  - 3 Microscopic appearance of wool fibres.
  - 4 Properties of silk fibres.

## SECTION II

- Q.4** a) Answer the following objective questions. (10)
- i) Polyethylene terephthalate is commercially known as \_\_\_\_\_.
  - ii) Give two uses of SARAN fibres.
  - iii) Which fibre is also known as synthetic wool fibre?
  - iv) Melting point of Nylon-6 is \_\_\_\_\_ °C
  - v) Give two example of Elastomeric fibres.
  - vi) CASEIN fibre is obtain from \_\_\_\_\_.
  - vii) Give any two uses of Vinyon fibres.
  - viii) Acrylic fibres are spun by \_\_\_\_\_ or \_\_\_\_\_ methods of spinning.
  - ix) The monomer used in preparation of Nylon 6 is \_\_\_\_\_.
  - x) Define MOD-ACRYLIC fibre.
- b) Describe in detail various spinning methods of synthetic fibres in detail with neat sketch. (10)
- Q.5** a) Explain with neat flow diagram, the steps involved in manufacturing of polyester fibre. (10)
- b) Discuss physical and chemical properties of polyester fibre. (05)
- OR**
- Q.5** Explain with neat flow diagram, the manufacturing of viscose rayon. Also discuss its various properties in detail. (15)
- Q.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
-