



UH-8141

**B. E. - II (Sem. - III) (Textile Technology & Textile Processing) Examination**  
May\June - 2012  
**Textile Fibres**  
(New Course)

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

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

Name of the Examination :  
B. E. - II (Sem. - III) (Textile Technology & Processing)

Name of the Subject :  
Textile Fibres

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

Seat No. :

Student's Signature

- (2) Answer the two sections in separate answer books.  
(3) Figures to extreme right indicate maximum marks.

**Section - I**

- 1 (a) Write True or False : 5  
(i) Linen is Bast fibre.  
(ii) Vicuna is a minor vegetable fibre.  
(iii) Kapok is a seed fibre.  
(iv) Wool is a protein fibre.  
(v) Jute is a Ligno cellulosic fibre.
- (b) Fill in the blanks : 5  
(i) \_\_\_\_\_ is a natural mineral fibre.  
(ii) PINA is \_\_\_\_\_ fibre.  
(iii) \_\_\_\_\_ is the Zoological name of silk worm.  
(iv) Cotton is a \_\_\_\_\_ staple fibre.  
(v) \_\_\_\_\_ wool is best quality of wool.
- (c) Explain in detail the physical and chemical properties of SILK fibres. 10
- 2 Discuss in detail the classification, history, growth and production and manufacturing of LINEN fibres. 15

OR

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[Contd...

- 2 Explain in detail the various MINOR HAIR fibres. 15
- 3 Write short notes on any **three** of the following : 15
- (i) Jute fibre.
  - (ii) Pineapple leaf fibres.
  - (iii) Properties of WOOL fibres.
  - (iv) Growth and production of COTTON fibres.

### Section - II

- 4 (a) Answer the following objective questions : 10
- (i) Standard moisture regain of Polyester is \_\_\_\_\_.
  - (ii) Melting of Vinyon fibre is \_\_\_\_\_ °C.
  - (iii) By which polymerization technique PP is polymerized ?
  - (iv) The tenacity of Viscose rayon is \_\_\_\_\_ gdp.
  - (v) The properties of cuprammonium rayon is quite similar to that of \_\_\_\_\_ fibre.
  - (vi) Spandex fibres are also known as \_\_\_\_\_.
  - (vii) Terylene is the commercial name of \_\_\_\_\_.
  - (viii) Vinyon fibre is spun from which polymer ?
  - (ix) Moisture regain of Nylon 6 is \_\_\_\_\_.
  - (x) Give the name of monomer for manufacturing of SARAN 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) Fibre forming properties of polymers.
  - (b) PAN fibres.
  - (c) Polynosic rayon.
  - (d) Vinyon fibres.