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**RN-6283**

**B. E. - II (Sem. III) (Textile Technology & Textile Processing) Examination**  
**May / June - 2010**  
**Textile Fibres**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दशांशवले 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) (TT & TP)**

Name of the Subject :  
**Textile Fibres**

Subject Code No. : **6 2 8 3** Section No. (1, 2,.....): **1&2**

Seat No. :

Student's Signature

- (2) Answer to the two sections must be written in **separate** answer books.  
(3) Figures to the right indicate full marks.  
(4) Tie two sections separy.

**SECTION I**

- Q.1** a) Answer the following **objective** questions. (10)
- i) \_\_\_\_\_ is natural mineral fibre.
- ii) Wool polymer is made up of around \_\_\_\_\_ amino acids.
- iii) Short fibres whose length is measured in terms of centimeters or inches are called \_\_\_\_\_ fibres.
- iv) RAMIE is a leaf fibres. TRUE or FALSE.
- v) The cotton fibre density is \_\_\_\_\_ gpd.
- vi) \_\_\_\_\_ sheep produce the best quality of wool.
- vii) LINEN is obtain from \_\_\_\_\_ plant.
- viii) The only natural bicomponent fibre is \_\_\_\_\_.
- ix) The fibre with keratin polymer is \_\_\_\_\_.
- x) Cotton is a \_\_\_\_\_ staple fibre.
- b) Discuss in detail the manufacturing of SPUN SILK. (10)

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**[Contd...**

**Q.2** Discuss in detail the growth, production and manufacturing of cotton fibre. (15)

**OR**

**Q.2** a) Explain in detail the manufacturing process of wool fibre. (10)

b) Explain the physical properties of wool fibre. (5)

**Q.3** Write short notes on **any three** of the following. (15)

a) Jute fibre

b) RAMIE fibre

c) Primary properties of fibres

d) Classification of wool 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

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