



RN-8141

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

May / June - 2010

**Textile Fibres [132901]**

*(New Syllabus as per GTU)*

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृष्टावेव निशानीवाणी विगतो उत्तरवही 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 [132901]**

Subject Code No. : **8** **1** **4** **1** 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 the **two** sections **separately**.

**SECTION - I**

- 1 (a) Match the following : 5
- | A          | B                |
|------------|------------------|
| (a) Kapok  | (i) Australia    |
| (b) Wool   | (ii) Egypt       |
| (c) Cotton | (iii) Bangladesh |
| (d) Silk   | (iv) Indonesia   |
| (e) Jute   | (v) China        |
- (b) State whether true or false : 5
- (i) The epithelial cells in the wool fibre are called SCALES.
- (ii) The mulberry silk is produced by the moth BOMBYX Mori.
- (iii) CASHMERE is a fruit fibre.

- (iv) Staple length of ASIATIC cotton is less than one inch.
  - (v) Another name for PALF fibre is PINA.
  - (c) Explain in detail the growth, manufacture and production of cotton fibre. **10**
- 2** Explain in detail the following BAST fibres: **15**
- (i) RAMIE
  - (ii) JUTE
  - (iii) BAMBOO

**OR**

- 2** (a) Explain in detail the microscopic appearance of Wool fibre. **5**
- (b) Explain in detail the physical and chemical properties of wool fibres. **10**
- 3** Write short notes on (any **three**) **15**
- (i) Minor natural fibres
  - (ii) Minor hair fibres
  - (iii) Types of cotton fibre
  - (iv) Properties of jute fibres.

**SECTION - II**

- 4** (a) Answer the following : **10**
- (i) Acrylic fibres are spun by \_\_\_\_\_ or \_\_\_\_\_ spinning method.
  - (ii) Give melting point of Nylon 6 and Nylon 6,6.
  - (iii) DINEL is trade name of \_\_\_\_\_ fibre.
  - (iv) Give the name of monomers used for manufacturing of SARAN fibre.
  - (v) List the raw material of PET mfg.
  - (vi) State two end uses of vinyon fibre.

- (vii) Specific gravity of PET is \_\_\_\_\_.
- (viii) Melting point of PAN fibre is \_\_\_\_\_.
- (ix) Give safe ironing temperature of Nylon 6, and Nylon 6,6.
- (x) Give two trade name of Diacetate fibres.
- (b) Explain in brief with neat diagram various spinning methods of man-made fibres. **10**
- 5** (a) Describe manufacturing of viscose rayon with neat sketch. **10**
- (b) Discuss various properties of viscose rayon in detail. **5**
- OR**
- 5** Explain manufacturing process of cuprammonium rayon. Also discuss its properties in detail. **15**
- 6** Write short notes on any **three** : **15**
- (a) Vinyon fibres
- (b) Acetate rayon
- (c) Preparation of Nylon 6 and Nylon 6,6
- (d) Casein fibres.
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