



KD-6283

B. E. II (Sem. III) (Textile Technology & Textile Processing) Examination
December – 2012
Textile Fibres
(Old Scheme)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

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| नीचे दर्शावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कपनी. 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. & T. P.)"/> | <input type="text"/> |
| Name of the Subject : | <input type="text"/> |
| <input type="text" value="Textile Fibres (Old)"/> | <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"/> |
| Section No. (1, 2,.....) : <input type="text" value="1&2"/> | <input type="text"/> |
| | Student's Signature |

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

SECTION I

- 1 a) Write True or False. (05)
- 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: (05)
- 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

- 2 Explain in detail the various MINOR HAIR fibres. (15)
- 3 Write short notes on **any three** of the following. (15)
- a) Jute fibre
- b) Pineapple leaf fibres
- c) Properties of WOOL fibres.
- d) Growth and production of COTTON fibres.

SECTION II

- 4 a) Answer the following objective questions. (10)
- i) Spandex fibres are also known as _____.
- ii) Terylene is the commercial name of _____.
- iii) Vinyon fibre is spun from which polymer?
- iv) Melting point of Nylon 6,6 is _____.
- v) Give the name of monomer for manufacturing of SARAN fibre.
- vi) Standard moisture regain of Polyester is _____.
- vii) Melting point of Vinyon fibre is _____ °C
- viii) By which polymerization technique PP is polymerized?

- ix) The tenacity of Viscose rayon is _____ gdp.
- x) The properties of cuprammonium rayon is quit similar to that of _____ fibre.
- b) Describe in detail various steps involved in manufacturing of Acrylic fibres. (10)
- 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

- 5 Explain with neat flow diagram, the manufacturing of viscose 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) SARAN fibres
- c) Polynosic rayon
- d) Properties of Polypropylene fibres
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