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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 दृशविवेक निशान्चीवाणी 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)

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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