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KC-8141

B. E. - II (Sem. - III) (Textile Technology & Textile Processing) Examination

November / December – 2012

Textile Fibres

(New Scheme)

Time : **3** Hours] [Total Marks : **100**

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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 (New)**

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

Seat No. :

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) Match the following:. **(05)**

	A	B
i)	KAPOK	Protein fibre
iii)	VICUNA	Bast fibre
iv)	JUTE	Minor hair fibre
v)	ASBESTOS	Seed fibre
vi)	SILK	Mineral fibre

b) Fill in the blanks with the right option: **(05)**

i) Cotton is a _____staple fibre. (short / long)

ii) Wool is made of _____polymer. (Keratin / Sericin)

iii) PINA is a _____fibre. (plant / animal)

iv) PHEA is the INDIAN name for _____fibre. (RAMIE / LINEN)

v) Wool is got from _____.(sheep / camel)

c) Explain in detail the physical and chemical properties of SILK fibres. **(10)**

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

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

OR

2 Explain in detail the various MINOR HAIR fibres. **(15)**

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

a) RAMIE fibre

b) Pineapple leaf fibres

c) Types of COTTON fibres

d) Microscopic appearance of various natural fibres.

SECTION II

4 **a)** Answer the following objective questions. **(10)**

i) CASEIN fibre is obtain from _____.

ii) Give any two uses of Vinyon fibres.

iii) Acrylic fibres are spun by _____or _____methods of spinning.

iv) The monomer used in preparation of Nylon 6 is _____.

v) Define MOD-ACRYLIC fibre.

vi) Spandex fibres are also known as _____.

vii) Terylene is the commercial name of _____.

viii) Viyon fibre is spun from which polymer?

ix) Melting point of Nylon 6,6 is _____.

x) Give the name of monomer for manufacturing of SARAN fibre.

b) Describe in detail various steps involved in manufacturing of Acrylic fibres. **(10)**

5 **a)** Explain with neat diagram, the manufacturing of Polypropylene fibres. **(10)**

b) Discuss physical and chemical properties of Polypropylene fibres. **(05)**

OR

5 Explain with neat diagram, the manufacturing of Polyester fibre. 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) Corn fibres

d) Manufacturing of Nylon 6,6