

Q.21 Explain the special property exhibit by Lycra, write the chemical formula of Lycra.

Q.22 Write the chemical formulae of Viscose Rayon fiber.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the Sequence of manufacturing process of Acetate Rayon fiber.

Q.24 Draw and Explain the Cross sectional and longitudinal view of cotton fiber.

Q.25 Draw and Explain the Appearance of Wool fiber.

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**1st / Branch : Textile Technology**  
**Subject:- Textile Fibres**

Time : 3Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 From the following\_\_\_\_\_ is a natural fiber

- a) Asbestos                      b) Lycra
- c) Acrylic                        d) Acetate Rayon

Q.2 Which from the following\_\_\_\_\_ is not a Cellulosic fiber?

- a) Case in                        b) Hemp
- c) Jute                             d) Acetate Rayon

Q.3 Which of these fibers does come from a plant?

- a) Cashmere                      b) Wool
- c) Asbestos                        d) Jute

Q.4 Rayon, Jute and Cotton are examples of\_\_\_\_\_

- a) Cellulosic fiber                b) Animal Fibers
- c) Natural Fibers                d) Man made Fibers

Q.5 Which of the following fibers is used for making parachutes, ropes and sleeping bags?

- a) Rayon                      b) Nylon
- c) Polyester                d) All of the above

Q.6 Which of the following three processes are involved in converting fiber into fabric?

- a) Yarn→Fibre→Fabric
- b) Fibre→Yarn→Fabric
- c) Both (a) and (b)
- d) None of the above

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (6x1=6)

Q.7 Moisture Region of Wool fiber is \_\_\_\_\_

Q.8 Degree of polymerization in Viscose rayon fiber is \_\_\_\_\_

Q.9 \_\_\_\_\_ fiber has scales if seen under microscope.

Q.10 \_\_\_\_\_ and \_\_\_\_\_ are used as monomer for polyester.

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Q.11 \_\_\_\_\_ natural fiber has similar properties as that of Acrylic fiber.

Q.12 \_\_\_\_\_ is the longest natural fiber.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write the composition of Cotton fiber.

Q.14 Draw the flow chart for classifications of textiles fibers.

Q.15 Define Textile Fiber and Filament.

Q.16 What are the end uses of Viscose Rayon fiber?

Q.17 Draw Flow diagram for the production of silk?

Q.18 Which are the monomers used for production of Nylon 66 fiber, given the chemical formula for Nylon 66 fibre.

Q.19 Write the physical properties of Wool fiber along with the values.

Q.20 Briefly explain the Nature and origin of Jute fiber.

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