

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

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

Q.24 Draw and Explain the Morphological structure of wool fiber.

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

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**1st Sem. / Text. Tech**

**Subject : Textile Fibers**

Time : 3 Hrs.

M.M. : 60

### SECTION-A

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

Q.1 From the following \_\_\_\_\_ is not a natural fiber.

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

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

- a) Case in                        b) Silk
- c) Wool                          d) Acetate rayon

Q.3 Which of these fibers does NOT come from a plant?

- a) Cashmere                      b) Hemp
- c) Linen                          d) Jute

Q.4 Rayon, Nylon and Polyesters are examples of\_\_\_\_\_.

- a) Plant Fibres                      b) Animal Fibres
- c) Natural Fibres                  d) Man made Fibres

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

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

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

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

### SECTION-B

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

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

Q.8 Degree of polymerization in cotton fiber is\_\_\_\_\_

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

Q.10 \_\_\_\_\_ and \_\_\_\_\_ are used as monomer for Nylon 66.

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

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 Define Textile Fiber and Filament.

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

Q.15 List out the impurities present in the wool fiber.

Q.16 What are the end uses of Jute Fiber?

Q.17 Draw Flow diagram for the production of Nylon 6 Filament.

Q.18 Which are the monomers used for production of Polyester fiber, give the chemical formula for Polyester fiber.

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

Q.20 Briefly explain the Nature and origin of silk.