



B.TECH DEGREE EXAMINATIONS: JUNE 2015

(Regulation 2009)

Second Semester

TEXTILE TECHNOLOGY

TTX101: Textile Fibers

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Mean angle between the chain molecules and fibre axis is termed as _____.
 - a) Degree of order
 - b) Slenderness ratio
 - c) Degree of localization
 - d) Degree of orientation
2. Moisture content of cotton is _____ %.
 - a) 1 to 2
 - b) 12 to 15
 - c) 7 to 8
 - d) 20 to 25
3. Swelling of _____ fibre is more in water when compared with the other fibres given below.
 - a) Wool
 - b) Polyester
 - c) Silk
 - d) Polynosic
4. _____ variety of cotton have a low modulus shows less elasticity from a given stress.
 - a) Coarse
 - b) Super fine
 - c) Fine
 - d) Extra long staple
5. Example for regenerated cellulose fibre is _____.
 - a) Flax
 - b) Silk
 - c) Viscose rayon
 - d) Wool
6. _____ fibre got more inter fibre friction.
 - a) Kemp
 - b) Jute
 - c) Ardil
 - d) Wool
7. _____ fibre produce more static electricity.
 - a) Jute
 - b) Cotton
 - c) Polyester
 - d) Flax

23. a) Describe the manufacturing techniques of casein fibre and its applications.

(OR)

b) Explain the manufacturing process of high wet modulus fibre and its physical properties.

24. a) With neat sketch explain the production sequence and chemical properties of polyester fibres

(OR)

b) With neat sketch explain the production sequence and physical properties of Nylon 6 fibres.

25. a) i) Elaborate on the characteristic of carbon fibre and its applications (7)

ii) Explain the physical and chemical properties of glass fibre. (7)

(OR)

b) Describe the procedure for identification of textile fibres by microscopic test and solubility test.
