

B.TECH DEGREE EXAMINATIONS: DEC 2014

(Regulation 2013)

Second Semester

FASHION TECHNOLOGY

U13FTT201: Fiber Science and Yarn Technology

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. The wool fiber is identified by the presence ofon its surface.
 - a) Scales
 - b) Convolutions
 - c) Twists
 - d) Folds
2.is a regenerated cellulosic fiber.
3. Polyester is manufactured inspinning system.
 - a) Melt
 - b) Dry
 - c) Solution
 - d) Mechanical
4. Artificial twists are inserted on the surface of the synthetic fibers by.....process.
5. Fiber to fiber separation is carried out inprocess.
 - a) Ginning
 - b) Carding
 - c) Spinning
 - d) Drawing
6.is called as break spinning system.
7. The impurities are removed from wool in
 - a) Gilling
 - b) Scouring
 - c) Oiling
 - d) Dyeing
8. The hairiness of compact spun yarn isthan ring spun yarn.
9. The number of twists inserted for one rotation of spindle in two for one twister is
 - a) 1
 - b) 2
 - c) 3
 - d) 4
10. One hank consists ofyards.

PART B (10 x 2 = 20 Marks)

(Not more than 40 words)

11. Define textile fibre.
12. State the physical properties of silk.
13. State the importance of spin finish.
14. What do you mean by elastomeric fibre?
15. Name any four ringless spinning systems.
16. What is the purpose of comber in spinning preparatory process?
17. What are the objectives of gilling process?
18. Describe compact spinning.
19. What is the purpose of assembly winder?
20. State the objectives of reeling.

PART C (5 x 14 = 70 Marks)

(Not more than 400 words)

Q.No. 21 is Compulsory

21. Discuss in detail the different processes involved in the conversion of cocoon to silk filament.
22. a) Elaborate on the production sequence of polyester fiber.

(OR)

- b) Discuss in detail the physical and chemical properties of any four speciality fibers.
23. a) Elucidate on the objectives and importance of the spinning preparatory processes with a flow chart.

(OR)

- b) Describe the working principle of carding with a neat sketch.
24. a) With a neat sketch explain in detail the working of wool combing process.

(OR)

- b) Elaborate on the working principle of siro spinning. State the end uses of siro spun yarns.

25. a) Explain the working principle of reeling with suitable diagram.

(OR)

- b) Describe the working of two for one twister with neat sketch.
