



B.TECH DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2009)

Fifth Semester

TEXTILE TECHNOLOGY

TTX108: Spinning Technology II

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Doubling _____ unevenness whereas drafting _____ unevenness
 - a) increases, decreases
 - b) decreases, increases
 - c) increases, increases
 - d) decreases, decreases
2. Roller eccentricity creates _____ faults on the fibre strand
 - a) Random
 - b) Periodic faults
 - c) Seldom occurring
 - d) Long thick
3. In ring spinning drafting, the bottom roller which drive the apron is _____ fluted
 - a) Spiral
 - b) Helical
 - c) Knurled
 - d) No flute
4. In modern ring spinning process, the front top roller shore hardness is around _____ degree
 - a) 65
 - b) 85
 - c) 45
 - d) 95
5. With compact spinning, the main improvement in yarn characteristics is
 - a) Reduction in yarn hairiness
 - b) Reduction in unevenness
 - c) Improvement in strength
 - d) Improvement in friction
6. Compact spinning the improvement in yarn quality is due to the reduction of _____

(OR)

b) Discuss the various twist insertion principles.

22. a) Explain in detail. How various operations are carried out in a ring spinning machine?

(OR)

b) (i) Elaborate the parameters that influence the yarn quality and production in ring spinning. (10)

(ii) What is the role of balloon control rings in ring spinning? (4)

23. a) Discuss the working principle of different compact spinning system with their advantages and limitations.

(OR)

b) (i) Explain the structure and properties of compact yarns. (8)

(ii) Discuss the techno economics of compact spinning. (6)

24. a) (i) Compare and contrast the characteristics of yarn spun from various spinning system. (6)

(ii) Discuss the operating principle of rotor spinning system. (8)

(OR)

b) (i) Illustrate the working of friction spinning. (6)

(ii) Discuss the working of air vortex spinning. (8)

25. a) (i) Describe the working of TFO twister. (8)

(ii) Explain any two fancy yarn production yarn methods. (6)

(OR)

b) (i) Discuss the working of SIRO Spinning. (8)

(ii) Demonstrate the self twist spinning system. (6)
