



B.TECH DEGREE EXAMINATIONS: MAY 2015

(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. Maximum possible speed of traveler in ring spinning machine
 - a) 15 m/s
 - b) 25 m/s
 - c) 45 m/s
 - d) 75 m/s
2. Balloon control rings are more effective
 - a) At the end of the doff
 - b) At the middle of the doff
 - c) At the beginning of the doff
 - d) Throughout the doff
3. Generally the type of twist inserted in ring spinning machine
 - a) Z
 - b) S
 - c) Z on S
 - d) C
4. Maximum possible Spindle speed (mechanical) in ring frame
 - a) 5000 RPM
 - b) 25000 RPM
 - c) 10000 RPM
 - d) 50000 RPM
5. Hairiness of yarns are majorly influenced by
 - a) Traveler number
 - b) Twist level
 - c) Delivery speed
 - d) Spinning triangle
6. 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
7. Percentage of straight fibres in air jet spun yarn (approximately)
 - a) 10%
 - b) 40%
 - c) 30%
 - d) 80%

23. a) (i) What is mean by spinning triangle and how does it influence quality of yarns? (8)
(ii) Differentiate between regular and compact spun yarns. (6)

(OR)

- b) What is meant by compact spinning? What are the advantages of compacting?
How are the advantages realised?

24. a) How are the fibres integrated into yarn in rotor spinning? Explain.

(OR)

- b) (i) Discuss critical process parameters affects quality of friction spun yarns. (7)
(ii) With appropriate sketches, explain the working of Murata Jet Spinning Machine. (7)

25. a) (i) Illustrate the different forms of self twist yarns with suitable sketches. (7)
(ii) Which conventional yarn is supposed to be replaced by SIRO spun yarns? What (7)
are the other possible applications of SIRO spinning?

(OR)

- b) Suggest and explain suitable spinning technology for producing composite
yarns.
