

B.TECH DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2009)

Seventh Semester

TEXTILE TECHNOLOGY

TTX118: Process Control in Spinning and Weaving

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. For determining the improvement after combing or fibre breakage in carding, one has to measure
 - a) 2.5% span length
 - b) Fibre strength
 - c) Effective length
 - d) Mean length
2. Fibre fineness decides
 - a) Evenness of yarns.
 - b) Waste level in blow room.
 - c) Trash in mixing.
 - d) Contamination level.
3. Yarn realization is greatly influenced by this:
 - a) Fibre length
 - b) Fibre fineness
 - c) Fibre strength
 - d) Trash
4. Invisible loss is influenced by _____
 - a) Moisture and fly loss
 - b) Product waste
 - c) Process waste
 - d) Cotton variety
5. Roller setting in drafting is affects
 - a) Machine production rate
 - b) Sliver unevenness
 - c) Sliver hank
 - d) Sliver breaks
6. Spectrogram is one method assessment of _____ faults

- (ii) Discuss any four online monitoring systems with their the principle of working, parameters measured and advantages. (8)

(OR)

- b) (i) Demonstrate the method of measure of fibre rupture in spinning process. (6)

- (ii) Analyze the factors that affect the nep removal efficiency of carding. (8)

22. a) Formulate a procedure for the assessment of yarn realization in a spinning mill.

(OR)

- b) (i) Elaborate the steps followed for the control of noil% in comber. (8)

- (ii) Discuss the measures to be followed for the reduction of yarn hairiness. (6)

23. a) (i) Identify the factors which cause higher yarn unevenness in a spinning process. (10)

- (ii) Illustrate yarn fault classifications. (4)

(OR)

- b) (i) Discuss the importance of end breaks and the causes for end breaks in ring spinning. (10)

- (ii) Compare the clearing efficiency of mechanical and electronic yarn clearers. (4)

24. a) (i) Evaluate the quality parameters of yarn meant for shuttle less weaving machine. (8)

- (ii) Discuss the process control measures carried out in warping. (6)

(OR)

Elaborate the methods of controlling size pick up, stretch and moisture in sizing.

25. a) (i) How do you evaluate loom efficiency? (4)

- (ii) Explain the factors influencing loom efficiency. (10)

(OR)

b) Illustrate any six fabric defects with their causes and remedies.
