

B.TECH. DEGREE EXAMINATIONS: NOV/DEC 2010

Fourth Semester

TEXTILE TECHNOLOGY

U07TT402: Fabric Manufacture - I

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 1 = 10 Marks)

1. Positively driven cone winding machine _____
a) Precision winder b) Drum winder c) Both winders d) None of them.
2. Number of winds may be defined as
a) No. of coils wound on the package for one stroke of the traverse guide.
b) No. of coils wound on the package for double stroke of the traverse guide.
c) No. of coils wound on the package for Triple stroke of the traverse guide.
d) All are correct statements.
3. The diameter of the spliced yarn at the joints will be
a) 3 times that of the normal yarn diameter. b) 4 times that of the normal yarn diameter.
c) 1.2 times that of the normal yarn diameter. d) None of them.
4. Bunch in a pirn has the length approximately
a) 1 mts b) 2 mts c) 5-15 mts d) 1-2 mts
5. _____ creel is used in warping
a) Single end creel b) Magazine creel c) Automatic d) All creels
6. Soft cones are produced due to
a) Insufficient pressure between beam and drum
b) Tension drop wires not help properly by warp end.
c) Brake not applied immediately when the machine stops.
d) All of them.
7. In sizing, Poly vinyl alcohol used as
a) Lubricant b) Antifoaming agent c) Antiseptic agent d) Synthetic adhesive
8. Positive dry nip in a size box facilitates
a) To remove air pockets in the yarn and easy penetration of size.

- b) To control yarn tension.
 - c) To reduce stretch
 - d) None of them.
9. Wet splitting is defined by
- a) The warp sheets are separated before the size zone.
 - b) The warp sheets are separated immediately after the squeeze roller before drying.
 - c) Both are correct
 - d) Both are not correct.
10. Tying is a process of _____
- a) Piecing of end breaks
 - b) Knotting of new warp yarn with corresponding end of old warp, manually or mechanically
 - c) All are correct
 - d) None of them.

PART B (10 x 2 = 20 Marks)

- 11. Differentiate knotters and splicers
- 12. List out any four cone defects.
- 13. What is bunching?
- 14. List out any two features of autoconer
- 15. Define beam warping
- 16. State the object of sectional warping
- 17. What is size pick up percentage?
- 18. State the ingredients used in sizing.
- 19. Define the term stretch
- 20. What is drawing - in operation?

PART C (5 x 14 = 70 Marks)

21. a) (i) Discuss the classification of yarn fault. (7)
- (ii) State the characteristics of parallel wound package and cross wound package. (7)

(OR)

b) Explain the cop unwinding characteristics and state the characteristics of various types of tensioners.

22. a) Enumerate any one type of cheese winding machine with neat sketch.

(OR)

b) With neat sketch describe the working of a fully automatic pirn winding machine.

23. a) Explain the working of sectional warping machine and give its various features.

(OR)

b) Write short notes on :

(i) Causes and remedies of beam defects (7)

(ii) Creels used for beam warping and stop motion. (7)

24. a) Describe the working principle of multi cylinder sizing machine and give its advantages.

(OR)

b) Write short note on:

(i) Method of drying (7)

(ii) Various control systems (7)

25. (a) Describe the working of single end sizing and give its advantages.

(OR)

(b) Write short note on:

(i) Classify looming (4)

(ii) List out the features of automatic drawing in and reaching in machine. (10)
