

B.TECH DEGREE EXAMINATIONS: MAY/JUNE 2013

Fourth Semester.

TEXTILE TECHNOLOGY

TTX105: Weaving Technology

Time: Three Hours

Maximum Marks: 100

**Answer all the Questions:-
PART A (10 x 1 = 10 Marks)**

1. The function of yarn clearer is
 - a) To detect unevenness
 - b) To catch slubs
 - c) To cut weak points
 - d) To catch neps
2. The most important feature of automatic cone winders is
 - a) Knotting is done automatically
 - b) Weak places are cut.
 - c) Splicing is done automatically
 - d) Slub catching is done
3. Which one is not part of size recipe
 - a) starch
 - b) softeners
 - c) Common salt
 - d) antiseptics
4. The normal size add-on percentage for cotton is
 - a) 2-3%
 - b) 8-12%
 - c) 30-35%
 - d) 0.5-1.0%
5. Which type of picking is used in automatic looms
 - a) Cone over pick
 - b) Under pick
 - c) Torsional picking
 - d) Jet picking
6. To weave large size flower design the following shedding is used
 - a) Tappet
 - b) dobby
 - c) jacquard
 - d) Cross border dobby
7. Which one is not primary motion in a loom
 - a) shedding
 - b) picking
 - c) Beat-up
 - d) Let off
8. The take up motion in a loom normally contains
 - a) Two wheels
 - b) Seven wheels
 - c) Three wheel
 - d) Four wheel
9. To produce check design the following motion is required
 - a) Warp stop motion
 - b) weft stop motion
 - c) Drop box motion
 - d) Cop changing motion

10. Normal speed of a power loom is
- | | |
|-------------------------|-------------------------|
| a) 60 picks per minute | b) 160 picks per minute |
| c) 260 picks per minute | d) 360 picks per minute |

PART B (10 x 2 = 20 Marks)

11. What are the objects of winding?
12. What is ribboning in cone winding
13. What are the objects of sizing?
14. Name the different size ingredients
15. Name the auxiliary motions in a loom
16. What is drawing –in?
17. What is the purpose of Checking devices?
18. How negative let-off works?
19. What is the function of drop wires?
20. What is the function of temples?

PART C (5 x 14 = 70 Marks)

21. a) Explain the working principle of cone winding machine with a diagram?

(OR)

- b) Explain the salient features of latest automatic winding machines?

22. a) Explain the working principle of multi cylinder sizing machines with a diagram

(OR)

- b) What is the importance of size add-on percentage? How it is controlled? Explain.

23. a) Explain dobby shedding with a diagram and its uses?

(OR)

- b) What are the different motions of a loom .Explain them with loom timing diagram.

24. a) Explain cone under pick mechanism with a diagram. ? Enumerate the advantages.

(OR)

b) Explain seven wheel take up motion with a diagram? Name the other take up mechanisms available?

25. a) (i) Explain any one type of warp stop motion employed in a loom? (7)

(ii) Explain the working of weft stop motion? (7)

(OR)

b) What is the purpose of pirn changing mechanism? Explain its working principle?
