

Register Number:

B.TECH DEGREE EXAMINATIONS: APRIL/MAY 2012

Fourth Semester

TEXTILE TECHNOLOGY (FASHION TECHNOLOGY)

FTY109: Woven Fabric Manufacture and Structure

Time: Three hours

Maximum Marks: 100

Answer All Questions:-

PART A (10 x 1 = 10 Marks)

1. The purpose of weaving preparatory process is to
 - a. prepare warp yarn
 - b. prepare weft yarn
 - c. prepare a fabric
 - d. prepare warp and weft yarn
2. Bunch in pirn winding process is wound at
 - a. nose of pirn
 - b. base of pirn
 - c. middle of pirn
 - d. no where on pirn
3. Shedding is a
 - a. Primary motion
 - b. Secondary motion
 - c. Auxillary motion
 - d. Take up motion
4. WIR of Jet weaving machines are in the range of
 - a. 500-400m/min
 - b. 1500-2000 m/min
 - c. 2000-2500m/min
 - d. 50-100 m/min
5. Draft plan denotes
 - a. order of drawing ends in heald wires
 - b. order of lifting heald frames for a pick
 - c. Ends and picks/inch
 - d. Number of heald frames required
6. Satinette is a
 - a. 4 end irregular sateen
 - b. 2/1 Twill weave
 - c. Weft rib
 - d. Plain weave
7. Purpose of Wadding ends in bedford cord is
 - a. to increase prominence of cords
 - b. to decrease prominence of cords
 - c. to increase thread density
 - d. none
8. Corduroy is a type of
 - a. velveteen
 - b. honeycomb
 - c. gauze
 - d. double cloth
9. Purpose of producing double cloth is to
 - a. to give warmth
 - b. to increase coolness
 - c. to make fabrics heavier
 - d. a & c
10. Double cloth weaving is done using
 - a. straight draft
 - b. divided draft
 - c. skip draft
 - d. broken draft

PART B (10 x 2 = 20 Marks)

11. State the objectives of warping process.

12. List the yarn quality parameters for weaving.
13. Differentiate between single lift and double lift jacquard.
14. Give the major types of shuttleless weft insertion systems.
15. How are woven structures classified?
16. What do you mean by peg plan? Give example.
17. Classify Backed fabrics.
18. Differentiate between gauze and leno weaves.
19. Classify different types of double cloth.
20. What do you understand by the term card cutting in jacquards?

PART C (5 x 14 = 70 Marks)

21. a) With flow chart, describe the various weaving preparatory processes that are required to make woven fabrics with their objectives. Give the speeds of each process.

(OR)

- b) Explain with a neat sketch the passage of yarn through a sizing machine with the objectives of the process and functions of various elements.
22. a) Classify shedding mechanisms. With a neat sketch explain the working of any one type of jacquard.

(OR)

- b) Describe the principles of various types of Shuttleless weaving machines. State their advantages over shuttle looms.
23. a) Discuss briefly about the various elements of woven design. Give the various types of draft plans with examples.

(OR)

- b) Draw the design of any three derivatives of twill weave. Give their end uses.
- 24.a) List the various methods of constructing crepe weave. Construct crepe weave using any one method and give the fabric characteristics with their uses.

(OR)

- b) (i) Give the design, draft plan for 8x8 mock leno weave. Give their types and end uses.(7)
(ii) Discuss the pile formation mechanism in terry with a sketch. Give its loom requirements and quality particulars of fabrics. (7)

25. a) Discuss the various types of double cloth of and highlight the principles of construction with neat sketches.

(OR)

b) Construct a self stitched double cloth of stitching from face to back with following particulars. Give the end uses and cloth particulars.

Face weave: 4 end irregular sateen

Back weave: 4 end irregular sateen

Ratio of face to back threads: 1:1
