Register Number: ……..

B.TECH DEGREE EXAMINATIONS: MAY/JUNE 2014

(Regulation 2013)

Second Semester

FASHION TECHNOLOGY

U13FT202: Weaving Technology

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Objective of winding process is to
   a) remove objectionable yarn faults b) convert cones to cops
   c) increase yarn strength d) prepare beams
2. Optical clearers work on the principle of----------
3. Creels in warping are used to
   a) Join broken ends b) Keep ring cops
   c) Remove yarn faults d) Keep cones
4. Sizing process improves---------- resistance of yarn
5. Looms are used to make
   a) Fibres b) Yarns
   c) Fabrics d) Knots
6. Shuttles are used to carry----------yarn
7. Weft carriers in Jet weaving machines use
   a) Air and water jet b) Projectiles
   c) Rapier d) Shuttles
8. WIR of projectile weaving machines----------m/min
9. Loom data will give details of
   a) Winding b) Weaving efficiency and production
   c) Warping d) Sizing
10. Fabric inspection system is for improving----------quality

PART B (10 x 2 = 20 Marks)

(Not more than 40 words)

11. State the objectives of cheese winding machines
12. Mention various types of yarn clearers

13. State the objectives of sizing process.
14. What is single end sizing?
15. What are primary motions in a loom.
16. Differentiate semi automatic and automatic loom.
17. State the principle of shuttleless weaving machines
18. What are multi phase weaving machines.
19. How will you control end breaks in weaving?
20. What is a computerized fabric inspection system?

PART C (5 x 14 = 70 Marks)

(Not more than 400 words)

Q.No. 21 is Compulsory

21. Explain the principle and working of a loom describing the functions of each element with a neat sketch.

22. a) (i) Describe the concepts of mechanical and electronic yarn clearers. (7)
    (ii) State the yarn quality requirements for weaving (7)

(OR)

b) Explain the objectives and principles of cheese and cone winding machines with a neat sketch.

23. a) Draw the passage of warp in a beam warping machine and discuss the functions of each element in the machine.

(OR)

b) (i) Write briefly on sectional warping process. Give its applications. (7)
(ii) Discuss on the sizing recipe used for different fibres and sizing of filament yarns (7)

24. a) (i) Write short notes on Drop box and Terry looms. (7)
    (ii) Discuss briefly on Dobby and Jacquard weaving. (7)

(OR)

b) Explain in detail the principles of various types of shuttleless looms and their salient features.

25. a) Discuss in details about the process and quality control measures in winding and weaving.

(OR)

b) (i) Write short notes on techno-economics of shuttleless weaving machines (5)

(ii) Discuss briefly on computerized fabric inspection and loom data system (9)

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