Register Number.....

B.TECH. DEGREE EXAMINATIONS: NOVEMBER 2009

Fifth Semester

TEXTILE TECHNOLOGY

U07TT503: Fabric Manufacture II

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

Answer ALL the Questions:-

PART A (10 × 1 = 10 Marks)

1. How many numbers of tappets are required to produce the twill weave (4 ends and 4 picks) in a tappet shading mechanism?

   (a) 2 (b) 3 (c) 4 (d) 8

2. What is the speed ratio between crank shaft with Bottom shaft?

   (a) 1:2 (b) 2:1 (c) 1:3 (d) 1:1

3. Simple Harmonic is the most commonly used motion for ----------

   (a) Shedding (b) Picking (c) beat up (d) take –up

4. If the cone is below the centre line of the picking tappet ---------- pick will result.

   (a) Harsh and Jerky (b) miss (c) loose (d) slip

5. What is the sley eccentricity ratio of saurer tappet automatic loom

   (a) 0.25 (b) 0.126 (c) 0.42 (d) 0.145

6. The maximum values of warp tension in top and bottom shed are occur at the -----

   (a) let-off (b) shedding (c) beat up (d) take up

7. ---------- shed is formed by single lift single cylinder Jacquard

   (a) Center close (b) bottom closed (c) open (d) semi open

8. In air jet loom, moisture due point should be ----------

   (a) Below 10^0 c (b) above 10^0 c (c) below 20^0 c (d) above 20^0 c

9. Taped ends are formed due to

   (a) Faulty working sizing (b) warping (c) winding (d) looming

10. What will be the count of healds for weaving a 4 shaft plain fabric using 64^s stock port reed drawn 4 in a dent?

    (a) 40^s (b) 60^s (c) 86^s (d) 128^s

PART B (10 x 2 = 20 Marks)

11. Find the number of ends per dm in a reed of 60^s metric drawn
12. What are the disadvantages of Jacquard shedding?
13. What do you mean by positive tappet shedding?
14. What do you mean by open shed?
15. What are the advantages of Asymmetric shedding?
16. What are the different types of mechanical warp stop motions?
17. What are the difference types of weft feeler mechanism?
18. What are the difference types of Rapier?
19. How much air pressure is required at exhaust point of compressor and min at just the inside position of loom?
20. What is operative efficiency?

PART C (5 x 14 = 70 Marks)

21. (a) Discuss the primary, secondary and auxiliary motions of loom.

(OR)

(b) Explain with neat sketch of positive cam shedding mechanisms.

22. (a) Describe the principle of the Jacquard machine parts.

(OR)

(b) What are different types of under picking mechanism and explain the any o type of under picking mechanism?

23. (a) Discuss the picker and its required properties

(OR)

(b) Explain the various warp protective mechanism

24. (a) How do you classify the rapier weaving machine? Explain them

(OR)

(b) Describe the working principle of water jet looms.

25. (a) Describe multiphase circular weaving machine working principle

(OR)

(b) What are the four major parameters to judge the performance of weaving Shed? Explain them.

****