THIRD SEMESTER
TEXTILE TECHNOLOGY
SCHEME JULY 2008
INTRODUCTORY WEAVING - 302

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

Note : i) Attempt total ***six*** questions. Question No.**1** **(objective type)** is **compulsory**. From the remaining questions attempt any **five**.
ii) Give sketch wherever necessary.

1. Choose the correct answer 2 each

i) High Sley eccentricity results in

(a) Low Beat up force

(b) Less time for passage of shuttle

(c) High Beat up force

(d) None of the above

ii) In plain weave Tappet loom, the Dwell period in one pick cycle is

(a) 1/2 of a pick (b) 1/3 of a pick

(c) 2/3 of a pick (d) Equal to pick

iii) Early shedding means

(a) When the tappets are moving faster and healds are getting early motion.

(b) When the shedding and picking is done little earlier and Beating is done latter.

(c) When the pick is effected after the shed is completely open.

(d) The Weft to be forced to the fell of the cloth before the shed has been properly crossed over the weft.

iv) In negative take up motion amount of cloth drawn in each pick depends on

(a) Beat up force

(b) Crank shaft speed

(c) Sley's eccentricity

(d) Amount of let off

v) Length of 105 grains of 40^s Ne cotton yarn will be

(a) 40 yards (b) 37.5 yards

(c) 2.6 yards (d) None of the above

2. What is meant by Fast Reed and Loose Reed motion of a loom? Sketch and describe in detail the working of Loose Reed motion. 18

3. Explain in detail working of the seven wheel take up motion as used on Power loom. 18

4. What are the necessity of Temple on a Powerloom? How many types of Temples are used on power loom? Explain in detail with their sketches. 18

5. Describe with the help of neat sketch the working of 'Under pick motion' of a power loom. What are the advantages of 'Under pick motion' over 'Over pick motion' of a loom? 18

6. a) If 80 yards of worsted yarn weigh 50 grains. What is the count of yarn in worsted system? 4

   b) Calculate the count of the three folded cotton yarn composed of 20^s, 15^s and 12^s singles. 5

   c) Write short notes on direct and indirect count with examples. 4

d) Calculate the count of 5000 yards of cotton yarn in Tex system if it weigh 10.OZS.(Ounces) 5

7. a) There are 500 looms in a weaving shed producing 18000 yards of cloth per day of 8 hours. If 200 is the average r.p.m of the looms and 56 is the average picks of the different sorts of cloth produced. Calculate the efficiency. 12

b) Explain in brief the function of different kinds of shed used in loom. 6

8. Write short notes on any three of the following : 6 each

a) Function of side weft fork motion used in power loom.

b) Eccentricity of Sley's motion.

c) Function of Negative let off motion in a loom.

d) Working principle of Tappet shedding.

e) Function of Lease rods in a loom.