THIRD SEMESTER
TEXTILE TECHNOLOGY
SCHEME JULY 2008
INTRODUCTORY WEAVING - 302

Time : Three Hours *Maximum Marks : 100*

Note : Attempt total **six** questions. Question No. **1** is **compulsory**. From the remaining questions attempt any **five**.

1. Write short answers of the following: 2 each

   a) Object of let-off motion

   b) Function of prongs in a weft fork motion

   c) Object of brake motion

   d) Functions of a reed

   e) Compare picking arm with crank arm

2. a) Sketch and explain tappet shedding motion. 9

   b) With a neat sketch, describe the passage of warp through a power loom. 9

3. a) Explain loose reed motion with a suitable sketch. 9

   b) How the loom stops when the weft on the shuttle pirn is exhausted? Explain your answer with a sketch. 9

4. Discuss the various types of sheds used in weaving. Mention their advantages and disadvantages. 18

5. a) Explain the working of under pick motion with a neat sketch. 9

   b) Describe the primary, secondary and auxiliary motion of a power loom. 9

6. a) Three yarns of 30^s, 35^s and 40^s are spun together to get a cable yarn. Calculate the final count of the cable yarn. 6

b) Six inches of yarn weighs 1/5 grains. Find the count of yarn in English system. 6

c) Calculate the production per hour of a loom running at a speed of 190 r.p.m. with an efficiency of 70%. The number of picks inserted per inch in the cloth is 80. 6

7. a) What is the length of 3.5 lbs of 20^s cotton yarn? 4

b) Without using conversion formula convert 50^s cotton into tex system. 8

c) A warp consist of yarn of the following particulars. Calculate the average count

2 lbs of 20^s yarn

4 lbs of 16^s yarn

6 lbs of 24^s yarn 6

8. Write short notes on any four of the following : 4½ each

a) Lease rods

b) Dividend of a loom

c) Crank and crank arm

d) Back rest

e) Dwell period of a tappet.