

**Third Semester
Textile Technology
Scheme July 2008**

INTRODUCTORY SPINNING (301)

Time : Three Hours

Maximum Marks : 100

Note : Attempt total six questions. Question No. 1 (Objective type) is compulsory. From the remaining questions attempt any five.

1. Write short answers of the following : 2 each
 - i) Object of Doctor's knife.
 - ii) Differentiate between flat wire and cylinder wire.
 - iii) Object of scroll roller.
 - iv) Object of slow moving condenser cage.
 - v) Function of front plate.

2. a) What is mixing? Name various mixing methods and explain any one of them. 9
b) Sketch and explain the constructional features and working of Hopper feeder. 9

3. a) What are the objects of carding? With sketches explain how these objects are achieved. 12
b) Give the maintenance schedule of carding machine. 6

4. a) With the help of a neat sketch, describe the working of piano feed regulating motion. 9
b) Sketch and explain the working of a Kirschner Beater. 9

5. a) Find out the production of a card/shift of 8 hrs. in pounds if the 27" diameter doffer makes 14r.p.m. Hank delivered is 0.14 and efficiency is 90%. 9
- b) On a finisher scutcher, 4 laps each of 14 oz/yd. are fed. The lap delivered weighs 13.5 oz/yd. What is the resultant draft? If the waste removed is 2% then calculate the machined draft? 9
6. a) What is roller stripping and grinding? Explain with sketch. 12
- b) Mention the features of modern carding machine. 6
7. a) If the hank of sliver is 0.12 and the actual draft is 104 of a carding machine then calculate the weight of one lap of 40yds. 4
- b) The lap fed to a carding machine has a man/metre of 500gms. The linear density of card sliver is 4Kg tex. What is the draft in the card? 4
- c) Sketch and explain the working of Auto mixer. 10
8. Write short notes on any four of the following. 4½ each
- a) Saw gin
- b) India roll system of web doffing
- c) Binmixing
- d) Flats
- e) Card waste and its control
- f) Various types of cotton used in spinning.

