SIXTH SEMESTER
TEXTILE TECHNOLOGY
SCHEME JULY 2008
MODERN SPINNING TECHNOLOGIES

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) In self twist spinning technique twist is inserted by

a) A pair of bare stud roller

b) A pair of drums

c) A pair of perforated drums

d) None of the above

ii) In Rieter uniflock, the turret carrying the exacting unit is movable by

a) 360° b) 180°

c) 90° d) 45°

iii) Air jet spinning yarn is recommended for

a) Fine counts

b) Medium fine counts

c) Coarse medium counts

d) Coarser counts

iv) The strength of friction spun yarn is

a) Same as that of rotor spun yarn

b) Less than that of rotor spun yarn

c) More than that of rotor spun yarn

d) None of the above

v) In trutzschler exactafeed FBF tuft feeder the first stage of levelling the flow material takes place in the

a) Reserve trunk

b) Feed trunk

c) Distribution duct

d) Dust extraction duct

2. What is Rieter flock feeder and Rieter uniflock? Sketch and explain the working of Rieter uniflock. 18

3. a) What is an Autoleveller? With neat sketch explain what do you understand by open loop and closed loop control system of autolevelling. 12

   b) Write short notes on Trutzschler CVT 4. 6

4. Explain the principle of operation of Dref 3 machine. Show the passage of material. Also mention how it differs from Dref 2 and uses of friction yarn. 18

5. a) With the help of a well labelled diagram explain the working of Trutzschler RN cleaner. 12

   b) Write short notes on Aerofeed system. 6

6. a) Sketch and explain the working of O.E Rotor spinning machine. 12

   b) Write short notes on roving stop motion. 6

7. a) With neat sketches explain the working of self twisted spinning machine. 9

   b) Sketch and describe the passage of material and working of an air jet spinning machine. 9

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

a) Modern blowroom line and its objective.

b) Fibre selection for rotor spinning.

c) Ring frame automation.

d) Weighing Hopper feeder

e) SIRO yarn.