

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 Rotor spinning third draft occurs in
- (a) Convergent tube (b) The wall of rotor
- (c) Suction fan (d) None of the above
- ii) Roving stop motion is fitted on a
- (a) Speed frame (b) Ring frame
- (c) Draw frame (d) None of the above
- iii) In Dref-2 spinning system fibres are deposited on
- (a) Rotor (b) Rollers
- (c) Perforated plates (d) None of the above
- iv) Which of the following yarns is most harsh in feel for same count
- (a) Rotor spun yarn (b) Ring spun yarn
- (c) Friction spun yarn (d) Air jet yarn
- v) In Rieter unimix intensive blending takes place in
- (a) Storage section (b) Intermediate section
- (c) Delivery section (d) None of the above

2. a) With the help of a neat and labelled sketch explain the working of Trutzschler exacta feed FBF-Tuft feeder. 12
 b) Compare ring spun yarn, friction spun yarn and spun Air jet yarn. 6
3. a) What is an Autoleveller? With neat sketches explain what do you understand by open loop and closed loop control system of autolevelling. 12
 b) Write short notes on End break Aspirator. 6
4. a) Explain the principle and passage of material through Dref 2 machine with sketch. Also explain the uses of Dref-2 yarn. 12
 b) Explain the working of weighing Hopper feeder. 6
5. Explain the passage of material through air jet spinning machine. Also explain with sketches the key features of its operating principle and the properties of air jet spun yarn. 18
6. a) Explain the working of RN cleaner of Trutzschler with the help of a labelled diagram. 12
 b) Write short notes on Zellweger ring data. 6
7. With the help of a neat and labelled diagram describe in detail the working of open end rotor spinning machine. Also explain fibre selection of Rotor spinning. 18
8. Write short notes on any three of the following: 6 each
- SIRO yarn
 - Contamination in cotton
 - Fly frame Automation
 - Modern Blow room line and its automation
 - Trutzschler CVT-4

