

**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) What is the advantage of opened spinning?
  - (a) Increase evenness
  - (b) Low yarn strength
  - (c) High delivery speed
  - (d) Low delivery speed
- ii) In Murata Air Jet spinning machine the number of Jets uses is
  - (a) 02
  - (b) 01
  - (c) 03
  - (d) None of the above
- iii) The fineness of yarn in friction spinning system is decided by
  - (a) Diameter of rotating drum
  - (b) Ratio of speed withdrawal of yarn to feed stock
  - (c) Ratio of drum and yarn rotation
  - (d) None of the above
- iv) In closed loop system, measurement is usually done at the
  - (a) Input
  - (b) Output
  - (c) Middle
  - (d) None of the above
- v) SIRO yarn is obtained from
  - (a) Rotor spinning technique
  - (b) Friction method
  - (c) Modified ring spinning technique
  - (d) None of the above

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2. a) With the help of a neat and labelled diagram explain the working of ERM cleaner. 12  
b) What is CVT4? Explain. 6
3. a) With neat and labelled sketch explain the working of multimixer. 12  
b) Write short notes on Roving stop motion. 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. What is the function of Auto leveller? Explain in detail about short, medium and long term Auto levelling at cards and draw frames with sketches. 18
6. a) What is SIRO yarn? Explain with sketches the working of SIRO yarn. 9  
b) With neat sketches explain the principle of spinning of self twisted yarn. 9
7. a) With the help of a neat and labelled diagram explain the working of Reiter uniflock. 12  
b) Write short notes on Reiter Aero feed system. 6
8. Write short notes on any three of the following: 6 each
  - a) Concept of com4 spinning
  - b) End break Aspirator
  - c) Weighing Hopper feeder
  - d) Ring frame Automation
  - e) Air Jet spinning

