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B. Tech
CPTX 8204

Fourth Semester Examination – 2008

YARN MANUFACTURE – II

Full Marks – 70

Time : 3 Hours

*Answer Question No. 1 which is compulsory
and any **five** from the rest.*

*The figures in the right-hand margin
indicate marks.*



1. Answer the following questions : 2 × 10
 - (a) “Speed frame is required to be stopped at the event of end breaks” – Why ?
 - (b) State the functions of pressure arm in flyer of speed frame.
 - (c) What is spinning angle and state its importance.

- (d) “Position of roving guide in spinning frame is important” – discuss.
- (e) State the advantages of wet doubling.
- (f) Why reeling is required ?
- (g) What is PTE in rotor spinning ?
- (h) State the relation between rotor diameter and wrapper fibre percentage.
 - (i) What is “Shift” in a cop building system ?
 - (j) What is “Fasciated Structure” of yarn ?

2. Discuss with the help of suitable sketches, the principle of Winding of roving on a bobbin. 10
3. Draw the material path through two spindles in single top arm of a speed frame drafting system. 10
4. Discuss the “Spinning Geometry” of a modern ring spinning frame indicating the movement of each important components. 10

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5. Discuss any of the “Building Mechanism” used in a ring spinning frame. 10
6. Draw the material path through a rotor box and state the functions of each important component. 10
7. Discuss with the help of neat sketches, the principle of TFO twisting and state the advantages of the system. 10
8. What are the important parameters in a Air-jet spinning frame which influence the yarn properties ? Discuss those in brief. Compare the yarn structures between ring and air-jet spun yarns. 10
