B. Tech.
(SEM. VI) EXAMINATION, 2006-07
YARN MANUFACTURE - IV

Time : 3 Hours] [Total Marks : 100

Note : Attempt all questions. All questions carry equal marks.

1. Attempt any one part of the following:-
   (a) Explain in detail the mechanisms involved in drafting, twisting and winding operations of a ring frame.
   (b) What are the limitations of ring sinning? List the various methods to overcome there limitations.

2. Attempt any one part of the following:-
   (a) Explain the factors affecting the twist calculations in ring frame. Explain the difference between actual and practical twist per unit length.
   (b) With the aid of a line sketch, explain the working of a builder motion meant for combined build.
3. Attempt any one part of the following:-
   (a) Explain with neat sketches, different types of rings and travelers and their important features.
   (b) Explain the various causes and remedies for the various yarn faults.

4. Attempt any one part of the following:-
   (a) With a neat sketch, explain the passage of material through a ring doubler.
   (b) Explain the various factors to be considered to get a balanced double yarn.

5. Attempt any one part of the following:-
   (a) How is yarn conditioned, reeled and bundled in a spinning mill?
   (b) Explain the production of cable and core spun yarns in an industry. State the importance of these yarns.