B. Tech. (TEXTILE TECHNOLOGY)

(SEM. IV) EXAMINATION, 2006-07

YARN MANUFACTURE - II

Time : 3 Hours] [Total Marks : 100

Note : (1) Attempt all questions.
(2) All questions carry equal marks.

1. Attempt any two parts of the following: 10×2
   (a) Draw a neat sketch of carding machine, showing passage of material. Name the different parts of machine.
   (b) Discuss the ‘carding action’. How it takes place in the machine?
   (c) Why stripping is necessary in carding? Name the different systems of stripping. Describe any one stripping system.

2. Attempt any two parts of the following: 10×2
   (a) Give the dimensions of different parts of the carding machine.
   (b) Narrate settings (gauge) between various parts of the carding machine.
   (c) Define – ‘draft constant’ and ‘production constant’. How are they calculated and are useful they in day to day working?
3. Attempt any **two** parts of the followings:  
   (a) Discuss the objects of draw frame. How are they fulfilled?
   (b) Describe any two types of drafting systems used in draw frames.
   (c) Define following terms:
       (1) Ends up
       (2) No. of doublings
       (3) No. of heads
       (4) No. of passages
       (5) No. of deliveries.

4. Attempt any **two** parts of the following:  
   (a) Differentiate between Conventional Draw Fame and Modern Draw Frame.
   (b) How will you ensure about the quality of sliver of a draw frame?
   (c) Discuss about the various stop motions used in draw frame.

5. Attempt any **two** parts of the following:  
   (a) How the waste of carding machine is controlled?
   (b) Differentiate between ‘Actual Draft’ and ‘Mechanical Draft’. How are both calculated in carding machine?
   (c) Assuming your own data calculate the production of a carding machine.