B. Tech.

(SEM. VI) EXAMINATION, 2006-07

FABRIC MANUFACTURING - IV

Time : 3 Hours] [Total Marks : 100

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

1. Attempt any two parts of the following :
   (a) What is cross border jacquard? Explain its working methodology.
   (b) State the difference, salient features and limitations of single lift single cylinder jacquard over double lift double cylinder jacquard.
   (c) Explain London and Norwitch system of harness mounting in jacquard.

2. Attempt any two of the following :
   (a) How terry fabrics can be produced? Explain the terry mechanism in the loom.
   (b) Explain different systems of harness ficing and describe card punching.
   (c) How do you classify the jacquards? Compare and discuss their salient features.
3. Attempt any two of the following:
   (a) In what way automatic looms are better than power looms. How do they effect the efficiency of loom in terms of quality of fabric and workload of weaver?
   (b) Describe the working of warp stop motions is associated with automatic looms.
   (c) With neat sketch describe the working of multiple box motions.

4. (a) What do you mean by positive motion and negative motion? Explain positive let off motion associated with automatic loom.
   (b) Explain the working of automatic pirn winding. State its advantages over ordinary pirn winding.
   (c) Describe seven wheel take up motion in an automatic loom.

5. (a) What do you mean by west mixing? Explain the working of drop box motion.
   (b) Explain the recent developments in Jacquard and write IT applications in Jacquard.
   (c) How the computerized design can be developed and explain how it can be transferred to Jacquard fabric?