Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Textile Engg.) (2011 Onwards)   (Sem.–5)
FABRIC MANUFACTURE – II
Subject Code : BTTE-503
M.Code : 71614

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. **Answer briefly :**

   a. What are the different types of tension variations in let-off?

   b. What is periodicity in take up? What are the reasons for it?

   c. What is Pick-at-will?

   d. Why weft mixing is required in weaving?

   e. What is double lift dobby?

   f. What are the different types of weft stop motions of loom?

   g. Mention the purpose of using the warp protector motion.

   h. Mention the important differences between Elitex and Sulzer weaving machines.

   i. Why weft accumulators are used in non conventional looms?

   j. Mention the advantages of using paper dobby.

SECTION-B

2. What are Gabler and Dewas system of pick insertion? Explain with neat sketch.

3. Describe a Double lift single cylinder jacquard.

4. Show that shifting of dead weight gives the solution to the tension variation of warp arises during the weaving on negative let-off system.

5. Describe a Cowburn and Peck (4×1) box changing motion.

6. Mention the different types of Temples along with specific uses.

SECTION-C

7. Explain a Seven wheel take up motion and calculate the PPI (Assume the change wheel=60 T) and also calculate the contributions of each wheel towards periodicity.

8. Elaborate the principle and working of a Keighley dobby with neat sketches.

9. Describe the Sulzer torsion bar picking mechanism.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.