(i) What is the role of Dividend in take-up motion ?

(j) Mention the timing of dobby shedding mechanism. **10×1.5=15**

Roll No. ..... **Total Pages : 04**

MAR-21-210057

B. Tech. EXAMINATION, March 2021

Semester IV (CBCS)

FABRIC MANUFACTURE-II

TE-404

Time : 2 Hours *Maximum Marks : 60*

The candidates shall limit their answers precisely within 20 pages only (A4 size sheets/assignment sheets), no extra sheet allowed. The candidates should write only on one side of the page and the back side of the page should remain blank. Only blue ball pen is admissible.

Note : Attempt *Four* questions in all, selecting *one* question from each Sections A, B, C and D. All questions carry equal marks.

Section A

1. Explain awarp tension control mechanism used in plain looms with the help of suitable labelled figures. Also elaborate about the factors affecting tension variation in a plain loom. **15**

2. Classify the take-up motions used in a plain power loom and discuss the working of seven wheel take-up mechanism. **15**

Section B

3. Discuss the importance of using temples in weaving. Discuss about different types of temples and their applications in weaving. **15**

4. Elaborate about different types of weft stop motion used in a shuttle loom. Explain the working of centre weft fork motion with diagram. **15**

Section C

5. What is the objective of box changing mechanism ? What are its types ? Explain any *one* type in detail. **15**

6. Discuss the working of any Pirn replenishment mechanism in a shuttle loom with a neat and labelled diagram. **15**

Section D

7. With suitable figures discuss the principle and working of a double lift double cylinder jacquard. **15**

8. What is the need of Dobby shedding. Classify different types of Dobby. Discuss the mechanism of pegging with respect to a satin design to be made on 8-Shaft. **15**

9. Attempt the following questions :

   (a) State the advantages of automatic loom over plain looms.

   (b) Write a short note on Jacquard Harness.

   (c) What do you understand by heald staggering ?

   (d) Write a short note on electronic take up.

   (e) State some causes of periodic faults in fabric.

   (f) What are advantages of open type drop wire ?

   (g) Differentiate between loose reed and fast reed motion.

   (h) Discuss the working mechanism of an optical feeler.