Roll No. ..... Total Pages : 03

July-22-00260

B. Tech. EXAMINATION, 2022

Semester IV (CBCS)

FABRIC MANUFACTURE–II

TE-404

Time : 3 Hours *Maximum Marks : 60*

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt *Five* questions in all, selecting *one* question from each Section A, B, C and D. Q. No. **9** is compulsory.

Section A

1. What do you mean by positive and negative let-off motion ? Explain positive let-off motion associated with an automatic loom. **10**

2. Classify the take-up motions used in a plain power loom and elaborate any *one*. **10**

Section B

3. Define the objective of Weft protection mechanism. What are the types of weft protection mechanism ? State modern weft protection motion with suitable diagram. **10**

4. Mention different types of warp stop motions. Discuss the construction and working of any mechanical type warp stop motion used in shuttle looms. **10**

Section C

5. What do you mean by weft mixing ? Explain the working of any drop box motion in detail. **10**

6. Illustrate the principle of pirn change mechanism with a neat and labelled diagram. **10**

Section D

7. Differentiate between positive and negative dobby shedding. Describe the working of Climax dobby with the help of a neat diagram. **10**

8. State the difference, salient features and limitations of a single lift single cylinder jacquard over a double lift double cylinder jacquard. Also explain the working of single lift single cylinder jacquard. **10**

(Compulsory Question)

9. (a) Describe the function of Pick at will motion.

   (b) What are the conditions of a good shedding ?

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

   (d) Explain the function of temple in weaving machine.

   (e) Distinguish between weft mixing and weft replenishment.

   (f) What does fast reed means ?

   (g) State the disadvantages of negative let-off system.

   (h) What do you understand by heald staggering ?

   (i) Explain why tertiary motions are required in looms.

   (j) Why feelers are used in looms ? **10×2=20**