[Total No. of Questions - 5] [Total No. of Printed Pages - 2] (2123)

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B. Tech 5th Semester Examination Fabric Manufacture-II (O.S.)

TE-5001

Time: 3 Hours Max. Marks: 100

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

Note: Answer all the questions in section E and one question each from the sections A, B, C and D.

SECTION - A

 Explain a Shirley positive continuous type take up system and calculate it's PPI. Also calculate the contribution towards periodicity of each wheel (assuming change wheel = 60T) (10+10=20)

OR

What are the different types of tension variations in negative Let off? How are they overcome in the positive system?

(10+10=20)

SECTION - B

2. Compare the mechanical and electrical warp stop motions giving their advantages and drawbacks. (10+10=20)

OR

Explain the side weft fork and centre weft fork motion with proper diagrams and highlight their merits and demerits. (10+10=20)

SECTION - C

3. How does a 4x1 Cowburn & peck box changing motion work? Explain with proper diagram. (20)

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OR

Compare the various types of feelers used in the weft replenishment system in a loom with their advantages and disadvantages. (20)

SECTION - D

- 4. (a) Explain the working of a cam operated dobby with neat figures.
 - (b) How does a Keighley dobby operate? (10+10=20)

OR

Draw and describe the working mechanism of a Double lift double cylinder jacquard with appropriate figures. (20)

SECTION - E

- 5. (a) What are the advantages of a paper dobby?
 - (b) Taking 2/3, 1/2 twill show how the pegging of the lags for a dobby is done?
 - (c) What is the objective of a warp protector motion?
 - (d) The importance of stopping a loom immediately after weft break is probably greater than in case of warp break. Comment.
 - (e) What is pick at will type of control motion?
 - (f) Highlight the importance of warp tension control during weaving.
 - (g) What are fine pitch jacquards? Give examples.
 - (h) With a standard 7 wheel take up, 27T standard wheel is available instead of 36T. Calculate the teeth of change wheel to be used to give 64 picks per inch.
 - (i) Classify jacquard harness ties.
 - (j) What is the importance of having a reserve bunch of weft on the butt of a pirn? (2x10=20)