

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]  
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**B. Tech 5th Semester Examination**  
**Fabric Manufacture-II (OS)**

TE-5001

Time : 3 Hours

Max. Marks : 100

*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 one question from each of the sections A, B, C and D. All questions in Section E are compulsory.

**SECTION - A**

1. Explain effectiveness of negative let-off motion on consistent release of warp with uniform tension. With a neat sketch, describe construction and working of chain, lever and weight let off motion. (8+12=20)
2. Differentiate in working principle and fabric appearance produced through negative and positive take up motions. With a neat sketch, explain working of 5-wheel take up motion. (10+10=20)

**SECTION - B**

3. With a neat labelled sketch, explain construction and working of side weft form motion. Mention advantage and disadvantage of side and centre weft form motions. (12+8=20)
4. Classify various warp stop motions. With a neat sketch, explain working of a fast reed motion and its advantage over loose reed motion. (4+16=20)

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5. Explain a pirn changing mechanism with a neat labelled sketch for continuous wefting purpose. Discuss various merits and demerits of the mechanism. (12+8=20)
6. Discuss characteristics of efficient multiple box motion. Classify various types of drop box motions with examples. Describe any negative type of drop box motion with a neat sketch. (5+5+10=20)

**SECTION - D**

7. State importance of dobbie shedding. In what context, it is superior to tappet shedding? Describe salient features of a double lift dobbie. (4+4+12=20)
8. Explain in what way, jacquard is efficient over dobbie weaving. Differentiate single and double lift jacquard. Describe timing cycle of a single lift jacquard. (5+5+10=20)

**SECTION - E**

9. Attempt all questions.
  - (a) State various points to be followed during jacquard mounting.
  - (b) Explain importance of a cross-border jacquard.
  - (c) Discuss 'Dwell of a dobbie' and its significance.
  - (d) What do you mean by 'Jack missing'? Discuss.
  - (e) State function of 'brake' in a loom.
  - (f) What are various causes of 'Shuttle Trapping'? Explain.
  - (g) Explain the 'Loom Knocking off' and its importance.
  - (h) Explain how pick density of woven fabric is calculated in a loom.
  - (i) Differentiate positive and negative take up motions.
  - (j) Explain objectives of let-off motions. (2×10=20)