

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]

Dec-22-0143

TE-303 (Yarn Manufacture-I)

B.Tech-3rd (CBCS)

Time : 3 Hours

Max. 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. Section E is compulsory.

### SECTION A

1. What is the significance of ginning process and how this process is dependent on the cotton quality? State the types of ginning machines and explain the detailed work of any one of them with neat sketch. (10)
2. Explain the various mixing and blending machines used in blow room operations. State the functioning of any one blending machine with detailed diagram. (10)

### SECTION B

3. Describe working of lap forming mechanism with neat sketch. (10)
4. What is meant by degree of opening and cleaning efficiency? How the performance of blow room is assessed? Support the answer with suitable example. (10)

### SECTION C

5. Elaborate in detail the mechanism of flat card along its components. Also mention how it is different from other carding systems. (10)
6. Write a note on high production carding machine. Also mention the production ranges of different carding machines. (10)

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### SECTION D

7. What is the objective of doubling in drawframe? Explain the function of draw frame machine with neat diagram. (10)
8. Explain the significance of autolevellers in drawframe. Elaborate various type of autolevellers in drawframe system. (10)

### SECTION E

9. (i) Define pre and post ginning.  
(ii) Mention the objectives of blending process briefly.  
(iii) Explain web stripping and coiler system in carding.  
(iv) Explain card clothing  
(v) Write a shot note on roller cots, roller weighting and drafting waves. (5×4=20)