

Sep-21-00056

B. Tech. EXAMINATION, 2021

Semester IV (CBCS)

YARN MANUFACTURE-II

TE-403

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 any of the Sections A, B, C and D.
Q. No. 9 is compulsory.

Section A

1. (a) Write objectives of the comber machine. 7.5
- (b) Describe Noil extraction in forward feed and backward feed. 7.5

2. Write a note on 'Latest development in combing machine.' 15

Section B

3. Describe the passage of material in simplex machine with the help of a neat diagram. 15
4. What are the objectives of builder motion in speed frame ? Explain the working principle of English builder. 15

Section C

5. (a) With the help of suitable sketch show the forces acting between ring and traveller. 7.5
- (b) Write features of different type of ring-travellers. 7.5
6. What are the modern development that have been introduced in ring spinning machines ? Elaborate. 15

Section D

7. Compare the properties of the yarn produced in ring, rotor, friction and airjet spinning system. 15

8. (a) Write sequences of machines in rotor spinning system. 7.5
- (b) Draw neat diagrams of DREF-II and DREF-III spinning machines. 7.5

(Compulsory Question)

9. (a) Short fibres are removed in..... .
- (b) Draw cop building graph in ring frame.
- (c) Objectives of ring frames are..... .
- (d) Typical Draft in ring frame is..... .
- (e) Typical spindle speed in ring frame is.....rpm.
- (f) Given an example of compact spinning machine.
- (g) Wrapper fibres are associated with.....spinning system.
- (h) Write full form of MJS yarn.
- (i) Traveller numbers is weight in gm of.....travellers.
- (j) Write objectives of the winding machine.

1.5×10=15