

Roll No.

Total Pages : 03

July-22-00232

B. Tech. EXAMINATION, 2022

Semester III (CBCS)

TEXTILE MACHINES AND PROCESSES

TE-301

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. Define textile fibres. Explain classification of textile fibre based on their origin. **10**
2. Define Polymerization. What are the basic requirements of a fibre forming polymer ? **10**

(5-09/15)W-July-22-00232

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Section B

3. What are the objectives of the spinning machinery used for spinning cotton combed yarn ? 10
4. Write short notes on the following :
- (a) Winding 5
- (b) Sizing. 5

Section C

5. Explain the difference between dyeing and printing. 10
6. Differentiate between conventional and non-conventional weaving process. 10

Section D

7. Explain classification of finishing. 10
8. Explain flame retardant and water repellent finishing. 10

(Compulsory Question)

9. Attempt all questions : 10×2=20
- (a) What are the objectives of bleaching ?

- (b) Define cotton count system.
- (c) Classify synthetic fibres.
- (d) What is the function of twist on plied yarns ?
- (e) Enlist the various non-conventional weaving processes.
- (f) What is importance of warping ?
- (g) Name various methods of printing.
- (h) Name *five* natural fibres.
- (i) Define non-woven fabrics.
- (j) Name basic weaves.