(iii) Bundling 4
(iv) Stitching. 3

(Compulsory Question)

Attempt all sub-parts: 10×1.5=15

- (i) Define the term Entrepreneur.

 - (ii) Define linear density.
 - (iii) What do you mean by oligomer?
 - (iv) What do you mean by T.M. ?
 - (v) What is doubling?
 - (vi) What is the importance of sizing?
 - (vii) What do you mean by plain weave?
 - (viii) What do you mean by continuous and batch process ?

4

- (ix) What do you mean by printing?
- (x) What is marker efficiency?

Roll No. Total Pages : 04

Sep-21-00028

B. Tech. EXAMINATION, 2021

Semester III (CBCS)

TEXTILE MACHINES AND PROCESSES

TE-301

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. What do you mean by fibre? What are the basic requirement of fibre and fibre forming polymer? What do you mean by Crystalline and amorphous region of a fibre?

2. What do you mean by yarn number? Discuss the	Section C
following types of yarn numbering system:	5. What do you mean by weaving? Classify various
(a) Tex	types of weaving machines. Discuss the basic motions of weaving with neat sketches and their utility in
(b) Denier	weaving? 15
(c) Mertic count	6. Discuss objectives of the following processes :
Obtain a relation between Tex and Denier. 15	(i) Singening
Section B	(ii) Desizing
	(iii) Scouring
3. What do you mean by Spinning? Classify various types	(iv) Bleaching
of spinning system and their scope of application. What	(v) Mercerization. 5×3=15
is the difference between staple and filament yarn? Give	Section D
at least <i>one</i> example of each.	
4. Discuss the importance of the following in yarn	7. Explain the need of finishing of fabric. Discuss importance of the following types of finishes:
manufacturing:	(i) Calendering 4
(i) Opening	(ii) Sanaforizing 4
· · · · · · · · · · · · · · · · · · ·	(iii) Decatizing 4
(ii) Cleaning	(iv) Anti crease finish. 3
(iii) Drafting	8. Discuss the following process:
(iv) Twisting	(i) Spreading 4
(v) Winding. $5\times3=15$	(ii) Cutting 4
W-Sep-21-00028 2	(5-18/21)W-Sep-21-00028 3 P.T.O.