

Roll No.....

Total No. of Printed Pages: 1

Total No. of Questions: [09]

B. Tech (Textile Engineering) Semester – 3rd)
FUNDAMENTALS OF TEXTILE MACHINE AND PROCESSES
Subject Code: BTEXS1- 301
Paper ID: [18112610]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. What is the objective of bleaching?
- b. What is indirect numbering system?
- c. What are the secondary motions in a loom
- d. Define Knitting fabrics.
- e. What is function of heald shaft?
- f. What is temple motion
- g. What is moisture regain?
- h. Write down the formula of Nec & NW system
- i. What is desizing
- j. Write short note on printing

Section – B

(5 marks each)

- Q2. Write a short note on the applications of textiles in diversified fields.
- Q3. Write a short note on non-conventional spinning system.
- Q4. Analyze the classification of textile fibres.
- Q5. What are the objectives of scouring? How it is carried out.
- Q6. Explain the working principal of conventional weaving

Section – C

(10 marks each)

- Q7. Differentiate between the woven, knitted and nonwoven fabric production systems.
- Q8. Write the objectives of spinning of yarn of ring spun yarn with sequence?
- Q9. Write the basic requirements of fiber for textile yarn.