Roll No……..….. **Total No. of Printed Pages: [1]**

Total No. of Questions: [09]

B.Tech. (Textile Engg.) (Semester – 4th)

TEXTILE FIBER –II

Subject Code: BTEXS1401

Paper ID: [18112615]

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. Explain the following:

a) Man-made fiber.
b) Crystallinity.
c) Spinning of polyester.
d) Melting of polymer chips.
e) Cutting of dry spun filaments
f) Drawing conditions
g) Physical and chemical structure of Synthetic fibres
h) Marits and demerits of wet spinning
i) Crimping of staple fibres
j) High performance fibres

Section – B **(5 marks each)**

Q2. Write in detail about effects of crystallinity on fibre properties.
Q3. Explain about wet spinning of acrylic.
Q4. What are the machines that are used to stretching yarns?
Q5. Write in brief about Nylon 66.
Q6. Explain any one high performance fibre in detail.

Section – C **(10 marks each)**

Q7. Explain the fine structure of man-made fibre along with its properties.
Q8. Explain the process of preparation of polymer solution, extrusion and spinning of yarn.
Q9. What is heat setting and explain parameters of heat setting in detail?