Roll No……..….. **Total No. of Printed Pages: [1]**
Total No. of Questions: [11]

M.Tech. Textile Engg. (Part-Time) (Semester – 4th)
TECHNICAL TEXTILE
Subject Code: MTEXD1-223
Paper ID: 22201118

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 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 **(4 marks each)**

Q1. What are the types of filters used in Textile Industries? Explain with an example.

Q2. What do you mean by geosynthetics and Geonaturals. Explain.

Q3. What is meant by health care and hygiene products, Explain?

Q4. Why nonwoven fabrics are used in aerosol filtration.

Section – B **(8 marks each)**

Q5. How will you manufacture flame retardant fabrics. State methods for the preparation of FR fabrics.

Q6. What are the properties required for sports textiles. State the name of the important fibres used in the sports textiles

Q7. What do you meant by functional properties of geotextile. Explain with suitable diagram.

Q8. What are the essential characteristics of Military Textiles. Explain essential features of bullet proof jacket.

Section – C **(10 marks each)**

Q9. State the growth and potential of Technical textile markets in India. Write the applications of Technical Textile in different areas.

Q10. Why moisture transmission is important in Textiles. State the mechanism of liquid absorption phenomenon in the fabrics.

Q11. Write short notes on the following:- a. Features of parachute fabrics b. Application of Textile in Agriculture.