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# TECHNICAL TEXTILE-I TT-401-A

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt Five questions in all, selecting at least one question from each Unit.

#### Unit I

- Describe various segments of technical textiles with mentioning their market share and future prospects in detail.
- Write detailed note on technical fibres, role of yarn and fabric construction along with composites.20

# Unit II

3. Discuss role of fibre, fabric construction, etc. on filtration.

20

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4. Describe the theory of dust collection and separation. mention various mathematical models of filbration.

10+10=20

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## Unit III

- Why does reinforcement required in certain applications'?
   Describe mechanism of reinforcement and their applications in technical textiles.
- Discuss the life, survivability and sustainability issues of geotextiles. Elaborate detailed note on testing of geotextiles.
   10+10=20

## **Unit IV**

- Justify that textile is structural element in automobile and transportation of vehicles.
- 8. Describe applications of technical textiles in aircraft and marine industries with mentioning required properties of textile raw material.20