### http://www.kuonline.in

### Unit II

3.	(a)	Differentiate	Woven	and	Non-Woven		
		Filters.	-				10
	(b)	Define Filtration	on Efficie	ncy. H	low ca	n it	be

10

# 4. (a) What is meant by Nano Filters? Discuss the role of fibre, yarn and fabric construction on filtration.

improved/controlled?

(b) Discuss various mechanisms of Filtration, 10

### Unit III

 (a) Tabulate application areas, primary and secondary functions of Geotextile Products.

(b) Lay down the selection criteria of fibre and fabric for geotextiles to be used as separator and in drainage.
10

6. (a) How can geotextiles be used in road construction and river embankments? 8

(b) Discuss the methods of testing the life of a geotextiles and its survivability in soil. 8

(c) Write a note on Natural Fibre Geotextiles. 4

L-9718

2

Rolf No. ....

Total Pages: 03

BT-7/D-14

9718

TECHNICAL TEXTILES-I

TT-401-A (Elective)

Time: Three Hours]

[Maximum Marks: 100

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

#### Unit I

- (a) What technological innovations support the growth of technical textiles? Discuss in detail.
  - (b) Define Composites. Elaborate the constituents of a composite and functions of each. 10
- 2. (a) Classify technical textiles as per application areas.
  - (b) Highlight the inherent properties of textiles that make it useful for technical applications. Discuss properties and end use applications of a few technical fibres.
    12

(1-05) L-9718

P.T.O.

# http://www.kuonline.in

## Unit IV

7.	(a)	Outline the manufacturing techniques of air			
		bags and seat belts to be used in automotives.			
		For what specific purpose are these used ?			

14

- (b) Discuss some applications of Textiles in Marines.6
- (a) How are Textiles used as structural elements in transport vehicles? Discuss.
  - (b) Describe the application of textiles in tyres and filters of automotives.
  - (c) What are the requirements of a fibre to be used for automotive textiles? Give some examples.