Seat No: \_\_ Enrollment No: \_

## PARUL UNIVERSITY

## FACULTY OF ENGINEERING & TECHNOLOGY

M.Tech. Summer 2017 - 18 Examination

Semester: 2 Date: 28/05/2018

**Subject Code: 03215180** Time: 2.00 pm to 4.30 pm

**Total Marks: 60** Subject Name: Geosynthetics and Reinforced Earth

## **Instructions:**

**(D)** 

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.

Write a note on Geocomposites in brief

4. Start new question on new page.			
Q.1(A)	Design the reinforced soil wall for given data Mechanical Height of wall = 6.68 m  Wall Height = 6.3 m  Wall Design Height = 6.03 m  Calculate only external stability of wall and do check for sliding along base.  Assume the suitable data	(10)	
Q.1(B)	What do you mean by Soil Confinement? Enlist various methods adopted for soil confinement.	(05)	
Q.2	Answer the following questions. (Attempt any three) (Each five mark)	(15)	
<b>(A)</b>	Describe construction steps for gabion structure in brief		
<b>(B)</b>	Describe steps for design of reinforced soil wall in brief		
<b>(C)</b>	Explain Cyclic triaxial test in brief		

Q.3 (A)	Write a note on gabion walls or crib walls	(07)
<b>Q.</b> 5 (11)	write a note on gaston wans of end wans	(07)

Q.3(B)	Write notes on types & applications of anchors.	(08)
	OR	

Q.3 (B)	Write a note on types of Geosynthetics	(08	<b>(</b> )

Q.4 (A)	Enlist test methods for geotextiles and explain any one method.	(07)
	OR	

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Q.4 (A)	Describe Uplift Capacity of Anchors in brief	(07)

(U	<b>J</b> 8)
	(U