Roll No.

Total Pages: 2

002606

132 [P.T.O.

May 2024 B.Tech. (Civil) VI Semester Geo-Environmental Engineering (PEC-CED-303-1)

Time: 3 Hours] [Max. Marks: 75

Instructions:

002606/100/111/125

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART-A

(a)	Define advection and dispersion.	(1.5)
(b)	What is volatilization and sorption?	(1.5)
(c)	What do you understand by stabilization of w	aste?
	Explain engineering properties and geotechnic	(1.5)
(d)	Define embankment.	(1.5)
(e)	What are slurry ponds?	(1.5)
(f)	What are the uses of bentonite and cement in	slurry? (1.5)
(g)	What do you understand by contamination?	(1.5)
(h)	Define soil erosion.	(1.5)
(i)	What is demolition waste?	(1.5)
(j)	What is Biodegradation?	(1.5)
	(b) (c) (d) (e) (f) (g) (h) (i)	 (b) What is volatilization and sorption? (c) What do you understand by stabilization of w (d) Define embankment. (e) What are slurry ponds? (f) What are the uses of bentonite and cement in (g) What do you understand by contamination? (h) Define soil erosion. (i) What is demolition waste?

PART-B

contamination?

What are the sources and effects of subsurface

(10)

(15)

	(b)	What are the geo-environmental soil characterizations? (5)	
		Time 2 Brown 1	
3.	(a)	What do you understand by stabilization and modification of waste? (5)	
	(b)	Explain various types of characteristics and cover characteristics of solid waste. (10)	
4.		plain embankment construction and planning and design eets? (15)	
5.	(a)	What are the uses of geosynthetics in land-fills? (5)	
	(b)	What do you understand by vertical barriers and cutoff walls also explain the construction features of barriers and cutoffs? (10)	
6.	(a)	Explain engineering properties and geotechnical reuse of waste materials? (10)	
		inaccinates. Inaccinating entired (b)	
	(b)	How to detect and control the subsurface contamination? (5)	
7	7371		
7.	IVV	nat are the causes and factors that contributing to soil	

erosion also provide the control measures for soil erosion?