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Rol	I No. Total No. of Pages	: 01	
Total No. of Questions: 08  M.Tech.(Civil Engg.) (2016 Batch) (Sem1)  GEOENVIRONMENTAL ENGINEERING  Subject Code: MTCE-204  Paper ID: [74240]  Time: 3 Hrs.  Max. Marks: 100			
INST 1. 2.	TRUCTION TO CANDIDATES: Attempt any FIVE questions out of EIGHT questions. Each question carries TWENTY marks.		
Q1.	a) Discuss subsurface contamination, briefly.	(8)	
	b) Estimate the life of a land landfill for a user population of 10,000, available at landfill is 50,000 m². Water table is at 5m below ground level. Height of land restricted to 8m. Assume that soil occupies 20% of the compacted volume. A suitable data if required.	dfill is	
Q2.	With the help of a neat sketch describe the operational components of a landfill an their functions.	d state (20)	
Q3.	Define containment transport; explain the process governing the transport of contain saturated soil.	minant (20)	
Q4.	a) Enumerate the geotechnical problems due to soil -water environment interaction.	(8)	
	b) Discuss factors affecting permeability and their evaluation.	(12)	
Q5.	a) Write steps for design of ash pond for a thermal power plant.	(12)	
	b) Explain different types of liners with figures.	(8)	
Q6.	Explain geotechnical reuse of mining waste and coal ash waste material in engineering.	Civil (20)	
Q7.	Explain detection and remedial measures for control of subsurface contamination.	(20)	
Q8.	a) Explain the different remedial measures for old waste dump.	(10)	
	b) Give regulations for contaminated site remediation as per IS.	(10)	