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		APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY HIRD SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 20	10
		Course Code: CE205	V _{in}
		Course Name: ENGINEERING GEOLOGY	
Ma	x. M	Tarks: 100 Duration:	3 Hours
		PART A	
1	a)	Answer any two full questions, each carries 15 marks. Write a note on the relevance of geology in civil engineering	Marks (10)
	b)	Discuss the engineering significance of weathering	(5)
2	a)	Elucidate on the engineering classification of weathered rock masses	(8)
	b)	Evaluate the porosity and permeability of rocks	(7)
3	a)	Discuss the ground water flow equation using Darcy's law	(6)
	b)	Elucidate the problems created by subsurface water in construction sites	(9)
		PART B	
4	a)	Answer any two full questions, each carries 15 marks. Write short notes on	(5)
		Shale	(3)
	b)	Marble	(5)
	c)	Quartzite	(5)
5	a)	Discuss about the seismic discontinuities inside the earth	(7)
	b)	Elucidate on the role of seismic waves in the study of internal structure of earth	(8)
5	a)	Explain hardness of minerals	(5)
	b)	Discuss any five rocks of Kerala	(10)
		PART C Answer any two full questions, each carries 20 marks.	
7	a)	Describe the attitude of geological structures	(6)

b) Discuss any two types of faults in rocks

(5)

(7)

Examine the methods to prevent landslides

c) Discuss the various flood management strategies

Page 2 of 2