Total No. o	of Questions	:	6]
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SEAT No.:			
[Total	No. of Pages	:	2

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[5154]-18

B.E.(Civil Engineering)

ADVANCED ENGINEERING GEOLOGY WITH ROCK **MECHANICS**

		(2008 Pattern) (Semester - II) (Elective - III)	
•		ax. Marks : 100	
Insti		ons to the candidates:	
	<i>1)</i>	All questions are compulsory.	
	2) 3)	Answer to the two sections should be written in separate books. Figures to the right indicate full marks.	
	<i>4)</i>	Neat diagrams should be drawn wherever necessary.	
		SECTION - I	
Q1)	Wı	rite notes on.	
	a)	Engineering significance of Precambrian metamorphic rock	ks. [8]
	b)	Characters of Fractures in deccan trap area.	[4]
	c)	Flow Groups.	[6]
		OR	
	a)	Width of dykes in deccan traps area.	[4]
	b)	Engineering significance of older sedimentary rocks.	[8]
	c)	Regional distribution of deccan trap Basalt.	[6]
Q2)	his	ow location of spillway is decided on geological grounds? stories of tail channel erosion due to Columnar basalt a eccias.	
		OR	
		scuss with suitable examples suitability of Compact Basalt and Asalts from dam foundation point of view.	Amygdaloidal [16]
Q3)	Wı	rite notes on.	
	a)	Influence of Climate on formation of Soil.	[6]
	b)	Water bearing characters of Compact Basalt.	[6]
	c)	Giant Phenocryst Basalt as a construction material.	[4]
		O.P.	

	a)	Multi aquifer System.	[4]
	b)	Characters of transported & residual soil.	[6]
	c)	Artificial recharge of ground water.	[6]
		<u>SECTION - II</u>	
Q4)	Writ	te notes on:	
	a) b)		[6] [4]
	c)	Bieniawaski's Geomechanical Classification.	[8]
		OR	
	Writ	te notes on:	
	a)	RQD system of classification of rock masses.	[6]
	b)	RSR system of classification of rock masses.	[8]
	c)	Electrical resistivity method.	[4]
Q5)	a)	Discuss with suitable examples, tunneling through Deccan Trocks.	ap 6]
		OR	
	a)	Determination of SBC of bridge during its fondation.	[5]
	b)	Treatment to be given to the dyke occurring below the foundation of bridge pier.	f a [5]
	c)	Tunneling through folded rocks.	[6]
Q6)	a) b)		[8] [8]
	a)	Fault zone treatment.	[6]
	b)	Problems with made ground in cities.	[6]
	c)	Foundation of monumental buildings.	[4]

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