Tota	l No	o. of Questions : 8] SEAT No. :	
P9	085	5 [6179]-210 [Total No. o	of Pages : 2
		S.E. (Civil Engineering)	
		ENGINEERING GEOLOGY	
		(2019 Pattern) (Semester - III) (207009)	
		½ Hours] [Max. ions to the candidates:	. <i>Marks</i> : 70
	1)	Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.	
	<i>2) 3)</i>	Figures to the right indicate full marks. Neat diagrams should be drawn wherever necessary.	1
		(A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	<i>D</i> /,
Q1)	a)	What is fold? Describe parts of fold with neat sketch.	[6]
	b)	Describe the types of joints and their significance in civil engir	neering.[6]
	c)	Write short notes on:	[5]
		Angular unconformity	
		ii) Strike and dip of rocks.	
		OR	
Q2)	a)	Define fault and describe any four types of fault.	[6]
	b)	Define unconformity and Describe the types unconformity.	[6]
	c)	Describe various types of igneous intrusions.	.[5]
		10 1 9.7 °C	
<i>Q3</i> )	a)	Describe the applications of remote sensing in civil engineering	g field.[6]
	b)	Describe preliminary geological explorations in civil engineering	projects.[6]
	c)	Explain how GIS is an important tool for civil engineers.	[6]
C	7	OR OR	
Q4)	a)	Discuss in detail core drilling method of subsurface geological e with its significance.	exploration [6]
	b)	Explain applications of GIS in civil engineering.	[6]
	c)	Compare direct and indirect methods of subsurface g investigations.	eological

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<b>Q</b> 5)	a)	Discuss on favorable geological conditions for reservoir area of dam	ı.[ <b>6</b> ]	
	b)	Discuss on tunnel excavated through faulted area.	[6]	
	c)	What are the geological requirements for the foundation of dam?	[5]	
		OR		
<b>Q6</b> )	a)	Explain geological investigations required to select site for tunneling	g. <b>[6]</b>	
	b)	Explain the suitable and unsuitable dipping strata conditions at dam site	e.[ <b>6</b> ]	
	c)	Discuss on stability of tunnels through limb and axial region of folds		
<b>Q</b> 7)	a)	Describe in brief the various preventive measures against landslides	. [6]	
	b)	Describe requirements of good building stone.	[6]	
	c)	Define aquifers. Explain in brief the types of aquifers.	[6]	
	(	OR		
Q8)	a)	Explain geological conditions favorable for natural springs and arte wells.	sian <b>[6]</b>	
	b)	Define earthquake and note on the Seismic zones of India.	[6]	
	c)	Explain in brief the geological work done by groundwater.	[6]	
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