Total No. of Questions: 8]	250	SEAT No. :	7
P-1478		[Total No. of Pages : 2	2

[6002]-105

S.E. (Civil Engineering) ENGINEERING GEOLOGY

(2019 Pattern) (Semester - III) (207009)

		(201) Tattering (Bennester - 111) (20700))
Time	2:21/	[Max. Marks: 70
Instr	uctio	ons to the candidates:
	<i>1</i>)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
	<i>2</i>)	Figures to the right indicate full marks.
	3)	Neat diagrams must be drawn wherever necessary.
Q1)	a)	What is unconformity and Describe various types of unconformities.
~ /	,	[6]
	b)	Define fault and explain the significance of fault in Civil Engineering.
		[6]
	c)	What is plate tectonics? Explain divergent and convergent plates. [5]
Q2)	a)	Define fold and explain any three types of folds. [6]
	b)	What is mountain building process? Describe types of mountains. [6]
	c)	Write short notes on [5]
		i) Inlier and Outlier
C		ii) Strike and Dip of rocks.
Q3)	a)	Explain importance of preliminary geological exploration in civil
2-7		engineering. [6]
	b)	Explain applications of remote sensing in civil engineering. [6]
	c)	Compare direct and indirect methods of subsurface geological
		investigations. [6]

Q 4)	a)	Describe in detail core drilling method of subsurface geologe exploration with its significance.	ical [6]
	b)	What will be the effects of faulting on civil engineering structures	? [6]
	c)	Explain how GIS is an important tool for civil engineers.	[6]
Q 5)	a)	Discuss on tunnel excavated through faulted area.	[6]
	b)	Discuss on unfavorable geological conditions for reservoir area of d	am. [6]
	c)	A site is proposed for excavation of tunnel along A-B and M-N, pass through axial and limb region of fold respectively. Justify the suitable of tunnel is such conditions. OR	sing
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Q6)	a)	Explain Preliminary Geological Investigations carried out Tunneling.	10r [6]
	b)	Explain influence of geological conditions on the choice and type dam.	e of [6]
	c)	Explain significance of dipping strata in site selection for construct	tion
		of dam.	[5]
Q 7)	a)	What is landslide? Describe preventive measures against landslide	s.
	b)	Explain various types of aquifers.	[6]
	c)	Describe requirements of good building stone. OR	[6]
		OR	
Q 8)	a)	What is earthquake? Explain causes of earthquake.	[6]
,,,,,	b)	What is groundwater? Describe methods of artificial recharge groundwater.	e of [6]
	c)	Describe suitability of basalt, granite and limestone as a building sto	
•			[6]
