Total No. of Questions:	8]	
--------------------------------	---	---	--

SEAT No.:		7
[Total	No. of Pages : 2	2

PA-1183

[5925]-205

S.E. (Civil Engineering)

ENGINEERING GEOLOGY

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

		(2015 attern) (Semester 111) (207005)	
Time	2:24	[Max. Marks	: 70
Instr	ucti	ons to the candidates:	
	<i>1</i>)	All questions are compulsory.	
	<i>2</i>)	Figures to the right indicate full marks.	
	3)	Neat diagrams muist be drawn wherever necessary.	
<i>Q1</i>)	a)	Describe various types of unconformities with neat sketches.	[6]
	b)	Explain sill and Dyke as igneous intrusions.	[5]
	c)	Write short notes on:	[6]
		Symmetrical and asymmetrical folds.	
		ii) Strike and dip of rocks.	
		OR OR	
Q2)	a)	Explain various parts Fold and any three types of fold with neat sketches	s.[6]
	b)	Write short note on plate tectonic.	[5]
	c)	Describe the classification of fault and their engineering significance	e.[6]_0
		C, 30	S.
Q3)	a)	What is the effects of faulting and their significance in civil engineering	[6]
	b)	Describe the application of remote sensing in civil engg.	[6]
	c)	Describe photo interpretation elements of aerial photographs.	[6]
		OR	
Q4)	a)	Explain in detail the importance of preliminary geological exploratio	n in
~ /		civil engineering projects.	[6]
	b)	Write an applications of GIS in civil engg.	[6]
	c)	Explain any three methods of subsurface investigation.	[6]
Q 5)	a)	Discuss in detail preliminary geological investigations of tunneling.	[6]
	b)	What are the geological requirement for the foundation of dam?	[6]
	c)	Discuss the feasibility of dam site, with dipping and horizontal strata	ւ[6]
		OR &	

Q6)	a)	A site is proposed for excavation of tunnel is A-B and M-N, which is passing through axis and limb region of fold respectively. Justify the suitability of tunnel is such conditions. [6]			
	b)	Explain with appropriate example the feasibility of dam alignment wis crossing DYKE.	vhich [6]		
	c)	Write a note on the dam located on folded geological structure.	[6]		
Q 7)	a)	Describe different types of seismic waves in detail.	[6]		
	b)	What is landslides? What are the causes of it?	[5]		
	c)	Define Aquifers. Explain in short the types of aquifers.	[6]		
Q 8)	a)	OR Write a note on building stones.	[6]		
~ /	b)	What are the causes of an earthquakes.	[5]		
	c)	Explain the Geological conditions favorable for natural springs and art			
			[6]		
		P. M. A.			
[592	25]-2	2			