Tota	l No	o. of Questions : 8] SEAT No. :
P90	085	5 [Total No. of Pages : 2
		S.E. (Civil Engineering)
		ENGINEERING GEOLOGY
		(2019 Pattern) (Semester - III) (207009)
		1/2 Hours] [Max. Marks : 70
	исп 1)	ions to the candidates: Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.
	2)	Figures to the right indicate full marks.
	3)	Neat diagrams should be drawn wherever necessary.
Q1)	a)	What is fold? Describe parts of fold with neat sketch. [6]
	b)	Describe the types of joints and their significance in civil engineering. [6]
	c)	Write short notes on: [5]
	-)	Angular unconformity
		ii) Strike and dip of rocks.
		OR O
Q 2)	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]
Q 3)	a)	Describe the applications of remote sensing in civil engineering field.[6]
	b)	Describe preliminary geological explorations in civil engineering projects.[6]
	c)	Explain how GIS is an important tool for civil engineers. [6]
		OR OF
Q4)	a)	Discuss in detail core drilling method of subsurface geological exploration
	Í	with its significance. [6]
	b)	Explain applications of GIS in civil engineering. [6]
	c)	Compare direct and indirect methods of subsurface geological
		investigations. [6]

P.T.O.

Q 5)	a)	Discuss on favorable geological conditions for reservoir area of dam.	[6]
	b)	Discuss on tunnel excavated through faulted area.	[6]
	c)	What are the geological requirements for the foundation of dam?	[5]
		OR	
Q6)	a)	Explain geological investigations required to select site for tunneling.	[6]
	b)	Explain the suitable and unsuitable dipping strata conditions at dam site.	[6]
	c)	Discuss on stability of tunnels through limb and axial region of folds.	[5]
Q 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 OR	
Q8)	a)	Explain geological conditions favorable for natural springs and artes wells.	ian [6]
	b)	Define earthquake and note on the Scismic zones of India.	[6]
	c)	Explain in brief the geological work done by groundwater.	[6]