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S.E. (Civil Engineering) (Second Semester) EXAMINATION, 2019

ENGINEERING GEOLOGY

(2015 **PATTERN**)

		(2019 11111121011)			
Tim	e :	2 Hours	Maximum	Marks:	5 0
N.B.	(i	Write the Answers to any four questions in single ans i) Neat diagrams must be drawn wherever necessary. ii) Figures to the right indicate full marks. v) Assume suitable data, if necessary.	wer book only.		
Q. 1	a	Differentiate the importance of FRACTURE and properties of minerals.	I CLEAVAGE	in physical	6
	b	What is an unconformity? Describe any two types of OR	Unconformities. '		6
Q. 2	a	How sedimentary rocks are formed? Explain g sedimentary rocks with examples.	grain size class	ification of	6
	b	What are discordant and Concordant intrusions? I Igneous intrusions.	Describe any tw o	o discordant	6
Q. 3	а	Explain any three landforms develop due to river eros	sion.	× × × × × × × × × × × × × × × × × × ×	6
	b	What is significance of GONDWANA formation in Ir OR		/?	6
Q. 4	a	Describe the types of mountains.	-014	. 🗡	6
	b	What is Remote sensing? What are the elements of importance of ASSOCIATION.	nage interpretatio	n? Explain	6
Q. 5	а	Why is it necessary to constantly monitor drill geological exploration? What precautions are nencountered with Tachylytes?		-	7
	b	Where do you propose a dam?	29		6
		 i) On dipping strata towards down stream ii) On dipping strata towards up stream justify your answer by choosing one statement and 	rejecting the ot	her one on	
		engineering geological grounds			
		96.		Ρ'	$T \cap$

Q. 6	a	A road has to be constructed along the hill slope. Illustrate with neat sketch the	7
	b	relation of geology and the slope of the hill. Describe feasibility of TUNNEL passing through an area comprising of two fault planes.	6
Q. 7	a	What is artesian condition? Explain the Geological conditions favorable for artesian wells.	7
	b	Write note on	6
		i) Depth zones of ground water ii) Earthquake wayes, epicenter and focus	
		OR S	
Q. 8	а	write note on,	7
		i) Circle of influence ii) Cone of depression	
	b	What are the requirements of good building stones?	6
		8) Je ji	