Total No. of Questions—8]

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[5559]-109

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

ENGINEERING GEOLOGY

(2015 **PATTERN**)

Time	е :	: 2 Hours Maximum Mar	·ks :	50
N.B.	(i (ii	i) Write the Answers to any four questions in single answer book only. (ii) Neat diagrams must be drawn wherever necessary. iii) Figures to the right indicate full marks. iv) Assume suitable data, if necessary.		
Q. 1	a	Differentiate the importance of FRACTURE and CLEAVAGE in phyproperties of minerals.	ysical	6
	b			6
Q. 2	a		on of	6
	b	What are discordant and Concordant intrusions? Describe any two disc Igneous intrusions.	ordant	6
Q. 3	a	Explain any three landforms develop due to river erosion.		6
	b	What is significance of GONDWANA formation in Indian stratigraphy? OR		6
Q. 4	a	Describe the types of mountains.		6
	b	What is Remote sensing? What are the elements of image interpretation? Expin importance of ASSOCIATION.	olain	6
Q. 5	a	Why is it necessary to constantly monitor drilling process in Prelingeological exploration? What precautions are necessary while drilling encountered with Tachylytes?		7
	b			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 other or engineering geological grounds OR	ne on	
Q. 6	a	A road has to be constructed along the hill slope. Illustrate with neat sket relation of geology and the slope of the hill.	ch the	7
	b	- · · · · · · · · · · · · · · · · · · ·	o fault	6

http://www.sppuonfine.What is artesian condition? Explain the Geological conditions favorable for 7 artesian wells.

Q. 5	a	Why is it necessary to constantly monitor drilling process in Preliminary geological exploration? What precautions are necessary while drilling process in Preliminary geological exploration? What precautions are necessary while drilling process in Preliminary geological exploration?	7 nline.com
	b	Where do you propose a dam?	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 other one on engineering geological grounds OR	
Q. 6	я	A road has to be constructed along the hill slope. Illustrate with neat sketch the	7
Q. 0	u	relation of geology and the slope of the hill.	•
	b		6
Q. 7	a	What is artesian condition? Explain the Geological conditions favorable for artesian wells.	7
	Ь	Write note on	6
4	U	i) Depth zones of ground water	v
		ii) Earthquake wayes, efficients and focus	
			•
		OR	7
Q. 8	a	write note on,	7
		i) Circle of influence	
	b	ii) Cone of depression What are the requirements of good building stones?	6
	U	what are no requirements or good building stones.	~