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Jul 1		GUJARAT TECHNOLOGICAL UNIVERSITY		
		BE - SEMESTER-IV(NEW) – EXAMINATION – SUMMER 2019		
Subject Code:2142203			ate:20/05/2019	
•			05/201/	
Subject Name: Geology-II Time:02:30 PM TO 05:00 PM Total M		orket 70		
	ctions:		11 KS. 70	
		Attempt all questions.		
		Aake suitable assumptions wherever necessary.		
	3. F	igures to the right indicate full marks.	MARKS	
~ 1	<i>(</i> )			
Q.1	(a)	Describe general characteristics of igneous, sedimentary and metamorphic rocks.	03	
	<b>(b)</b>	What is earthquake? Explain waves of earthquakes.	04	
	(b) (c)	Define engineering geology. Explain how petrology is important in	04	
	(C)	mining engineering.	07	
Q.2 Q.3	<b>(a)</b>	What are igneous intrusions?	03	
	<b>(b)</b>	Describe the intensity of an earthquake.	04	
	(c)	Give the tabular classification of Igneous rocks.	07	
	$(\cdot)$	OR	07	
	$(\mathbf{c})$	Explain the characteristics of Granite, Sandstone and Schist.	07	
	(a) (b)	How are sedimentary rocks formed? Give the classification of sedimentary rocks on the basis of their	03 04	
	(0)	origin.	04	
	(c)	Describe different types of sills with neat sketches.	07	
	(-)	OR		
Q.3	<b>(a)</b>		03	
	<b>(b)</b>	Explain agents of metamorphic rocks.	04	
	(c)	Explain different texture of sedimentary rocks.	07	
Q.4	(a)	Describe the following rocks: (i) Basalt (ii) Marble.	03	
	(b)	Differentiate mountains on the basis of genesis. What is joint? Explain the type of joints.	04 07	
	(c)	OR	07	
Q.4	<b>(a)</b>	Describe the intensity of an earthquake.	03	
	(b)	Describe the structure of metamorphic rocks.	04	
	(c)	Write Note on: Lineation and schistosity	07	
Q.5	(a)	What are the reasons of landslides?	03	
	(b)	What are various geological factors affecting a tunnel site?	04	
	(c)	What is volcano? Explain types of volcanoes. <b>OR</b>	07	
Q.5	<b>(a)</b>	Write Note on : Siwalik Supergroup.	03	
<b>V</b> •2	(a) (b)	Seismic zones of India.	03 04	
	(c)	What investigation is to be carried out at a dam site?	07	