GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2022 Subject Code:3142208 Date:02-0				7-2022	
Subject Name:Mining Geology Time:10:30 AM TO 01:00 PM Total Ma					
Instru	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed 		ke suitable assumptions wherever necessary. ures to the right indicate full marks.	d. Marks	
0.1		()			
Q.1		(a)	What are mountaine? Explain types of mountain	03	
		(b) (c)	What are mountains? Explain types of mountain What is volcano? How are they formed? Discuss the types of volcanoes.	04 07	
Q.2		(a)	How are igneous rocks formed?	03	
		(b)	Write a note on lineation.	04	
		(c)	What is the different between magma and lava? Explain the various structures developed due to the mobility of magma or lava in igneous rocks.	07	
		(a)	OR	07	
		(c)	What is tunnel. Discuss the geological factors to be taken care in the design of a tunnel.	07	
Q.3		(a)	List out different types of igneous intrusion.	03	
		(b)	Write a note on Seismic Zones of India.	04	
		(c)	Describe how sedimentary rocks formed? OR	07	
Q.3		(a)	What is texture and structure?	03	
		(b)	Give the difference between a fault and a fold.	04	
		(c)	Describe various textures observed in metamorphic rocks.	07	
Q.4		(a)	Describe how metamorphic rocks are formed.	03	
		(b)	Describe the "Jurassics of Kutch".	04	
		(c)	Discuss how the geological factors influence the selection of tunnel alignments.	07	
			OR		
Q.4		(a)	Explain the causes of earthquake.	03	
		(b)	Describe different agents and kinds of metamorphism.	04	
		(c)	Classify and describe Rhyolite, Shale, Phyllite.	07	
Q.5		(a)	What are the causes of landslide?	03	
		(b)	Describe structures of sedimentary rocks.	04	
		(c)	What are the preventive measures for landslide? OR	07	
Q.5		(a)	What is Sill and Dyke?	03	
		(b)	Describe economics of deccan traps.	04	

(c)

07