S	eat N	o.: Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
	BE - SEMESTER-IV(New) • EXAMINATION - WINTER 2016		
Subject Code:2142203 Da			/11/2016
	•	ect Name:Geology-II	
	•		arks: 70
		ctions:	
		1. Attempt all questions.	
		2. Make suitable assumptions wherever necessary.	
		3. Figures to the right indicate full marks.	MADIZO
			MARKS
<b>Q.1</b>		Short Questions	14
	1	Define the term magma.	
	2	List out important textures shown by igneous rocks.	
	3	What are dykes?	
	4	Give the names and uses of three igneous.	
	5	What are sedimentary rocks?	
	6	Define a rock.	
	7	Enlist three sedimentary rocks with their uses.	
	8 9	Define the term metamorphism.	
	10	Enumerate the factors responsible for metamorphism.  Give the names and uses of three metamorphic rocks.	
	11	What is seismology?	
	12	Which waves emanated during an earthquake are referred to as body waves'	?
	13	Name the different types of volcanoes?	•
	14	What are Tsunamis?	
Q.2		Write a note on seismic zones of India.	03
	<b>(b)</b>		04
	(c)	Describe different structures observed in sedimentary rocks.	07
		OR	
	(c)	Describe the formation of igneous rocks.	07
<b>Q.3</b>	(a)	Give the classification of sedimentary rocks on the basis of their origin.	03
	<b>(b)</b>	Briefly describe factors responsible for the texture of sedimentary rocks.	04
	<b>(c)</b>	Describe different types of sills with neat sketches.	07
0.2	( )	OR	0.2
Q.3	(a)	What are igneous intrusions?	03
	(b)	Describe various types of textures observed in metamorphic rocks.	04 07
Q.4	(c) (a)	Describe different kinds of metamorphisms.  Describe schistose structure observed in metamorphic rocks.	07
<b>7.</b> 7	(b)	What are landslides and how those can be prevented?	03
	(c)	Define jointing in rocks. Describe different types of joints with sketches.	07
	(0)	OR	0,
Q.4	(a)	Describe the following rocks: (i) Granite (ii) Marble (iii) Sandstone	03
	<b>(b)</b>	What is aseismic design of engineering structures?	04
	(c)	What are the types of mountains and explain their genesis.	07
Q.5	(a)	Narrate the objects of geological investigations for tunnel alignments.	03
	<b>(b)</b>	Write a note on soft ground tunneling.	04
	(c)	Describe the geological factors to be considered for investigation of dams?	07

OR

What is multi-generation folding?
Briefly describe the origin of Indogangetic plains.
Describe in brief the Jurrassics of Kuchchh and Cambrian of Salt Range.

Q.5

(a) (b)

**(c)** 

03

04 07