

D 30895

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THIRD	SEMESTER	B.TECH.	(ENGINEERING)	DEGREE	EXAMINATION
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OCTOBER 2012	AMINATION
Civil Engineering	
CE 09 306 / PTCE 09 305—ENGINEERING GEOLOGY	escit if the second
(2009 Admissions)	. 487
	faximum: 70 Marks
Part A	
Answer all questions.	
I. 1 Surfaces of erosion or non deposition are called	
2 Earth quakes induced by human activity are known as ———.	
3 A mineral exhibiting magnetic property ————.	
4 The strata in which the older sequence of rocks in the core and are arch	ned downwards.
5 A photograph taken with the optical axis of the camera pointing vertical	ally downwards.
Part B	$(5 \times 2 = 10 \text{ marks})$
Answer any four questions.	
II. 1 Elastic rebound theory.	
2 Types of volcanoes.	
3 Geological factors in design of building.	
4 Geographic Information system and its uses.	
5 Moh's scale of hardness.	
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	$(4 \times 5 = 20 \text{ marks})$
Part C	
III. (a) What are earthquakes? Comment on their mechanism and recording.	
Or Or	

- (b) What are volcanoes? Describe various stages of volcanic activity and their distribution.
- IV. (a) What are sedimentary rocks? Comment on their distribution and engineering properties.

(b) Describe the process of metamorphism and various rocks formed. Comment on their varities.

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(a) Describe various geological structures and their significance in civil engineering projects.

Or

- (b) Describe electric and electromagnetic method of mineral exploration techniques.
- (a) Comment on the basic principles of remote sensing. How they can be used for planning engineering projects.

Or

(b) Describe the geological factors concerned in the design of different types of dam.

 $(4 \times 10 = 40 \text{ marks})$