Reg. No.											
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IV SEMESTER B.TECH (CIVIL ENGINEERING) END SEMESTER EXAMINATIONS, JUNE 2022

SUBJECT: ENGINEERING GEOLOGY [CIE 2253]

REVISED CREDIT SYSTEM

(_/06/2022)

Time: 3 Hours Max. Marks: **50**

Instructions to Candidates:

- ❖ Answer ALL the questions
- Missing data may be suitably assumed

Q.No		Marks	CO
1A.	Mention different eras of geologic time scale? Explain any two eras sub classifying them into periods		1
1B.	What is the scope of geology in civil engineering?		1
1C.	Differentiate between seismogram and seismograph?		2
2A.	With a neat diagram explain the internal structure of the earth		2
2B.	Discuss the different types of plate boundaries?	3	2
2C.	What is Tsunami? How is it caused?	2	2
3A.	What are the geological considerations to be adopted during the construction of a tunnel	5	3
3B.	Explain the methods of soil erosion control	3	3
3C.	What is a cleavage? Mention the different types of cleavages in minerals?		3
4A.	What are the textures of igneous rocks? Explain with neat diagrams		3
4B.	Discuss any three clastic/ detrital sedimentary rocks	3	3
4C.	Write a note on contact metamorphism		3
5A.	What are folds? List the different types of folds with neat diagrams		3
5B.	With a neat diagram explain the hydrological cycle	3	4
5C.	Explain the role of GIS and RS in groundwater exploration	2	5

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