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ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. / B. Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, APR/MAY 2024

CIVIL ENGINEERING (ENGLISH MEDIUM)

III Semester

AG 7306 ENGINEERING GEOLOGY

(Regulation 2015)

Time: 3hrs

Max.Marks: 100

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

Q. No	Questions	Marks
1	List the depositional landforms formed due to action of Sea.	2
2	Give a short note 'Dendritic drainage' pattern with a neat sketch.	2
3	Write a short note on gypsum and its uses in Civil Engineering constructions.	2
4	Define: streak of a mineral.	2
5	What are foliated metamorphic rocks?	2
6	Write on RQD and List the ranking of rocks using RQD.	2
7	What are dip and strike of a rock?	2
8	Write a short note on seismic methods.	2
9	Define: Intensity of an Earthquake.	2
10	List few coastal protection structures.	2

PART- B (5 x 13 = 65 Marks)

(Restrict to a maximum of 2 subdivisions)

Q. No	Questions	Marks
11 (a)	Explain the erosional landforms formed due to the action of rivers and write on their significance in Civil Engineering.	13
	(OR)	
11 (b)	Describe the Internal structure of Earth with a neat sketch.	13
12 (a)	Explain the following physical properties of minerals: i) Specific gravity ii) Hardness iii) Fracture iv) Cleavage.	13
	(OR)	
12 (b)	Explain the properties and uses of Mica group of minerals.	13

- 13 (a) Describe the properties of following rocks: i) Basalt ii) Marble iii) Sandstone. 13
- (OR)
- 13 (b) Discuss on engineering properties of rocks and their laboratory determinations. 13
- 14 (a) Explain on folds, its types and its effects on rocks. 13
- (OR)
- 14 (b) Elaborate on origin, types and classification of Joint structures and their significance in Civil Engineering. 13
- 15 (a) Elucidate the significance of geological structures in selection of suitable sites for Dam construction. 13
- (OR)
- 15 (b) Describe concepts of Remote Sensing technique and its application in Civil Engineering. 13

PART- C (1 x 15 = 15 Marks)
(Q.No.16 is compulsory)

Q. No	Questions	Marks
16.	Explain the importance of surface and sub-surface geological investigations and their significance in Major civil engineering projects.	15

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