ANURAG Engineering College

(An Autonomous Institution)

II B.Tech I Semester Regular Examinations, Jan/Feb-2024 ENGINEERING GEOLOGY

(CIVIL ENGINEERING)

Time: 3 Hours Section – A (Short Answer type questions)		<u>Max. Marks</u> : 60 (10 Marks)		
		Outcome	Level	
1.	What is mean by Engineering geology?	CO1	L1	1 M
2.	Define the term geology and give their importance.	CO1	L1	1M
3.	Explain physical properties of Talc.	CO2	L2	1 M
4.	What is metamorphic rock?	CO2	L1	1M
5.	Explain the mechanism of folding?	CO3	L2	1 M
6.	Define Strike?	CO3	L1	1 M
7.	What are the causes of Earthquake?	CO4	L1	1M
8.	Write applications of magnetic method	CO4	L1	1M
9.	Give an account of geological investigation of Dam site.	CO5	L1	1M
10.	Explain the construction of a Gravity Dam?	CO5	L2	1M
	Section B (Essay Questions)			
Answe	er all questions, each question carries equal marks.	(4	5 X 10M	= 50M)
11. A)	Briefly explain the different types of physical and chemical	CO1	L3	10M
11. A)	weathering.	COI	113	101/1
70	OR	001	T 0	101.6
B)	Describe in detail, the process of weathering of rocks. Add a note on the effect of weathering on the strength of rocks.	CO1	L3	10M
12. A)	i) Write different methods of study of Minerals?	CO2	L2	5M
	ii) Explain the physical properties of Feldspar group of Minerals.			5M
	OR			
B)	i) Define cleavage and fracture of a mineral with examples.	CO2	L2	5M
,	ii) Explain the physical properties of Augite and Hornblende.			5M
13. A)	Explain, with neat sketches, the principal types of Faults as	CO3	L3	10M
10.11)	recognized on the basis of apparent movement and mode of			
	occurrence.			
	OR			
B)	How are folds classified? Describe different types of folds.	CO3	L3	10M
_/	71			
14. A)	What are the principles of geophysical exploration? Discuss any one	CO4	L3	10M
	method used for interpreting subsurface structures.			
	OR			
B)	Comment on seismic exploration techniques for site investigation in	CO4	L3	10M
	civil engineering projects and for water exploration.			
	1			
15. A)	Explain the influence of geological structures, water table, and	CO5	L2	10M
. ,	scope for preventive leakage for successful reservoir.			
	OR			
B)	Discuss the influence of structural attitudes of sedimentary rocks on	CO5	L3	10M
,	dam stability			
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