

ANURAG Engineering College
(An Autonomous Institution)

II B.Tech I Semester Supplementary Examinations, June/July – 2024

ENGINEERING GEOLOGY
(CIVIL ENGINEERING)

Time: 3 Hours

Max. Marks: 75

Section – A (Short Answer type questions)

Answer All Questions

(25 Marks)

	Course Outcome	B.T Level	Marks
1. Define Geology?	CO1	L1	2M
2. Differentiate the petrology and structural geology?	CO1	L2	3M
3. Distinguish megascopic and microscopic properties?	CO2	L2	2M
4. What are the textures of Igneous Rocks?	CO2	L1	3M
5. Define Out crop?	CO3	L1	2M
6. Distinguish Strike and Dip directions?	CO3	L2	3M
7. List the different electrical methods?	CO4	L1	2M
8. Explain about life of Reservoir?	CO4	L2	3M
9. Define cone of depression?	CO5	L1	2M
10. Explain about shield areas and seismic belts.	CO5	L2	3M

Section B (Essay Questions)

Answer all questions, each question carries equal marks.

(5 X 10M = 50M)

11. A) i) Demonstrate the importance of geology from civil engineering point of view?	CO1	L2	5M
ii) Explain brief study of case histories of failure of civil engineering construction due to geological draw backs?			5M
OR			
B) Explain the physical properties of minerals as per mohs hardness scale?	CO1	L2	10M
12. A) Explain the common structures and textures of sedimentary Rocks?	CO2	L3	10M
OR			
B) Write the common structures and textures of metamorphic Rocks?	CO2	L2	10M
13. A) Distinguish Seismic method, electrical method & Gravity method?	CO3	L3	10M
OR			
B) Write about unconformities and types?	CO3	L2	10M
14. A) What Geological factors influencing water tightness and the life of the reservoirs?	CO4	L3	10M
OR			
B) Write the special importance of Electrical resistivity method & seismic refraction method?	CO4	L2	10M
15. A) Demonstrate Landslides and their causes & effects?	CO5	L2	10M
OR			
B) Point out the effects of Tunnelling & lining in tunnels?	CO5	L3	10M