



Regulation 18
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A+' Grade)

Subject code: 2P4AA

B.Tech IV Semester Supplementary Examinations, February 2024
Engineering Geology
(Civil Engineering)

Maximum Marks: 70

Date: 16.02.2024 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

		Marks	CO	Blooms Tx
1	Define frost action in weathering	2	1	L1
2	What is geology?	2	1	L1
3	What are the different methods of study of minerals?	2	2	L1
4	Explain Mohs scale of hardness	2	2	L2
5	Explain about geological classification of rocks	2	3	L2
6	Define dyke and sill?	2	3	L1
7	What are the causes of earth quakes?	2	4	L1
8	Explain strike and dip?	2	4	L2
9	What do you mean by dam and reservoir?	2	5	L1
10	List the types of dams	2	5	L1

Part-B

Answer All the following questions.

(10M X 5=50Marks)

11	a) Describe the process of physical weathering? b) Explain the scope of geology in civil engineering?	5+5	1	L2 L2
	OR			
12	a) Explain any two branches of geology? b) Explain biological weathering?	5+5	1	L2 L2
13	a) Explain any three physical properties of minerals? b) What are the physical properties of quartz?	5+5	2 2	L2 L1
	OR			
14	Describe about feldspar group of minerals	10	2	L2
15	Explain petrography properties of granite and conglomerate?	10	3	L2
	OR			
16	Differentiate geological classification of rocks	10	3	L4
17	Explain any four types of folds with neat sketches?	10	4	L2

	OR			
18	a) Explain shortly about Richter scale. b) Explain shortly about landslides.	5+5	4	L2 L2
19	Discuss the factors contributing for the success of reservoir?	10	5	L4
	OR			
20	What is the role of ground water in the process of tunneling?	10	5	L2