



R20 Regulation *Subject code:3P4AB*
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
 (Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech IV Semester Supplementary Examinations, December 2024
ENGINEERING GEOLOGY
 (Civil Engineering)

Maximum Marks: 70

Date:05.12.2024

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 which carries 10M.
 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)	CO	Bloom Tx
1	Write about biological weathering?		1	L1
2	Define the Geophysics.		1	L1
3	Differentiate rock and mineral.		2	L1
4	What is meant by cleavage?		2	L1
5	Classify the sedimentary rocks.		3	L1
6	Define the Batholithics.		3	L1
7	Write the strike with neat sketch?		4	L1
8	Define the outcrop.		4	L1
9	What is soil stabilization?		5	L1
10	Define the watertable.		5	L1

Part-B

Answer All the following questions.		(5X10M=50Marks)	CO	Bloom Tx
11	A) With neat sketch, Explain the erosional action of the wind. [5M] B) Discuss in details failures of any dam in india. [5M]		1	L2
OR				
12	Give a brief account of the importance of geology in civil engineering. Explain your answer by giving suitable example. [10M]		1	L2
13	A) Define the Form. Explain the each form of the mineral. [5M] B) Bringout the difference between Muscovite and Biotite? [5M]		2	L2
OR				
14	Describe the physical properties of minerals (i)Calcite (ii)Galena [10M]		2	L2
15	How sedimentary rocks are formed? Mention the important properties of sedimentary. [10M]		3	L2
OR				
16	A) Define the Porphyritic and poiklitic texture in igneous rocks. [7M] B) What are the types of Granite? [3M]		3	L2
17	Explain the advantages to study the branch of structural geology? Write and explain various faults with the help of neat sketches. [10M]		4	L2

	OR		
18	A) What is meant by STRIKE, DIP and OUTCROP. [6M] B) Define unconformity, mention different types of unconformities.[4M]	4	L2
19	What are the purposes of Dams? Explain types of the Dam with neat sketch. [10M]	5	L2
	OR		
20	Explain over break of tunneling with reference to civil engineering.[10M]	5	L2