



Regulation R18  
**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous, Accredited by NAAC with 'A' Grade)  
**B.Tech IV Semester Supplementary Examinations, June 2022**  
**ENGINEERING GEOLOGY**  
(Civil Engineering)

Subject code:2P4AA

Maximum Marks: 70

Date:20.07.2022 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)

- 1 What is Geology?
- 2 Mention the weathering agents.
- 3 What is the crystallography?
- 4 Explain the moh's scale.
- 5 Classify the igneous rock.
- 6 Mention the structure of metamorphic rocks.
- 7 Explain the strike with neat sketch.
- 8 Write the causes of the Earthquake.
- 9 Define the unconfined aquifer.
- 10 Mention the effects of the tunnelling.

Part-B

Answer All the following questions.

(5x10M = 50 Marks)

- 11 Write an essay on importance of geology in point of civil engineering view. 10M
- OR
- 12 a) Write a note on geological work of river. 5M  
b) Explain the process of Weathering in Granite.
- 13 Define the following terms:  
i) Hardness ii) Luster iii) Fracture iv) Cleavage v) Optical property
- OR
- 14 Describe the physical properties of minerals (i)Feldspar (ii)Olivine 10M
- 15 How sedimentary rocks are formed? Mention the important properties of sedimentary. 10M
- OR
- 16 a) Define the Porphyritic and poiklitic texture in igneous rocks. 5M  
b) What are the types of Granite? 5M
- 17 Explain the advantages to study the branch of structural geology? Write and explain various faults with the help of neat sketches. 10M
- OR
- 18 What is the difference between free ground water and artesian water? Explain the various properties and functions of an aquifer. 10M
- 19 Explain engineering geological consideration in tunneling? Write the purpose of tunneling. 10M
- OR
- 20 Enumerate the objects of dams and various types of dams suitable for achieving different objects. 10M