



R18 Regulation

Subject code: 2P4AA

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

**B.Tech IV Semester Supplementary Examinations, September 2023**

## Engineering Geology

(CE)

**Maximum Marks: 70**

Date: 13.09.2023 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 Define frost action in weathering.
- 2 Define petrology.
- 3 Write the cleavage?
- 4 Write shortly special physical properties?
- 5 What are igneous rocks?
- 6 Define dyke and sill.
- 7 Define outcrop, fault.
- 8 What is the water table.
- 9 What do you mean by landslides.
- 10 List the types of dams.

### Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 a) Describe the process of physical weathering? (5M)  
b) Explain the scope of geology in civil engineering? (5M)  
OR
- 12 Briefly explain about the classification of weathering (10M)
- 13 What are the physical properties of quartz and talc (10M)  
OR
- 14 Explain briefly about feldspar group of minerals? (10M)
- 15 Explain petrography properties of granite and conglomerate? (10M)  
OR
- 16 Differentiate geological classification of rocks (10M)
- 17 Explain the type of faults with neat sketches? (10M)  
OR
- 18 Describe the various preventive measures for landslides? (10M)
- 19 Define water tightness of a reservoir and explain the geological factors which influence it. (10M)  
OR
- 20 Explain about lining of tunnels. (10M)

