



MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

II B.Tech I Sem Supplementary Examination, July-2022

Engineering Geology

(CIVIL)

Time: 3 Hours.

Max. Marks: 70

Note: 1. Answer any FIVE questions.

2. Each question carries 14 marks and may have a, b as sub questions.

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| 1 | a) Discuss in detail weathering of Granite | 7M | CO 1 | BL2 |
| | b) What do you learn from analysis of dam failures and what precautions you take in civil construction in future | 7M | CO2 | BL2 |
| 2 | Explain in detail the importance of geology from civil engineering point of view with examples | 14M | CO2 | BL2 |
| 3 | a) Explain the physical properties of mineral in the identification of mineral and how they are useful in your profession. | 7M | CO2 | BL2 |
| | b) Define texture and structure and discuss the Sedimentary rock structures and textures | 7M | CO1 | BL2 |
| 4 | Explain in detail the physical properties to identify the following samples. a) Quartz b) olivine c) Muscovite d) Kyanite e) Asbestos | 14M | CO1 | BL2 |
| 5 | a) Explain the cone of depression with a diagram and its affect in urban and agricultural areas. | 7M | CO1 | BL2 |
| | b) What are the different types of a folds? Explain with neat sketches | 7M | CO1 | BL |
| 6 | What are the different parts of a fault. Explain with neat sketches | 14M | CO2 | BL2 |
| 7 | a) How does earthquakes occur? Explain Richter scale and what for it is used | 7M | CO1 | BL2 |
| | b) Explain the Seismic Refraction method employed in geophysical exploration along with the principle involved. | 7M | CO2 | BL2 |
| 8 | What is the role of structural geology in excavation of tunnels? Explain with neat sketches | 14M | CO2 | BL2 |

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