

Course Code: 1930112

Roll No:

MLRS- R19



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 Supply End Examination, October 2021

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) | What is weathering? Explain "Granite" weathering? | 7M | C01 | BL4 |
| | b) | Write about importance of physical, petrological and structural geology in civil Engineering aspects? | 7M | C01 | BL1 |
| 2 | a) | What is the scope of geology? Explain about the academic importance of geology in civil engineering? | 7M | C01 | BL4 |
| | b) | What the importance of geology in civil engineering aspect with reference to dams, reservoirs and tunnels? | 7M | C01 | BL1 |
| 3 | a) | Define rock? Explain Rock cycle with neat sketch? | 7M | C02 | BL4 |
| | b) | Explain structures of silicates with neat sketches? | 7M | C02 | BL4 |
| 4 | a) | Give a classification of faults with neat sketches? | 7M | C03 | BL1 |
| | b) | Explain water table with neat sketches? | 7M | C03 | BL4 |
| 5 | a) | What are the common structures and textures of metamorphic rocks? | 7M | C02 | BL1 |
| | b) | Write a notes on geological controls of ground water movement. | 7M | C03 | BL1 |
| 6 | a) | Explain about Richeter scale? | 7M | C04 | BL4 |
| | b) | What is the importance of geophysical methods? Explain about Radiometric method? | 7M | C04 | BL4 |
| 7 | a) | What is grouting? What are the fundamental aspects of rock mechanics? | 7M | C04 | BL1 |
| | b) | Write about geological considerations in the selection of a dam site. | 7M | C05 | BL1 |
| 8 | a) | Explain about lining of tunnels? | 7M | C05 | BL4 |
| | b) | Write about the considerations for successful reservoir? | 7M | C05 | BL1 |

