



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 Regular End Examination, March 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) | Define Geology? Explain Main and allied branches of geology. | 7M | CO | BL |
| | b) | Explain the importance of geology from civil engineering point of view. | 7M | CO | BL |
| 2 | a) | What is weathering? Explain importance of weathering. | 7M | CO | BL |
| | b) | Explain about factors of weathering. (physical , chemical and biological) | 7M | CO | BL |
| 3 | a) | Define mineral. Write the physical properties of given Minerals?
i. Quartz ii. Calcite iii. Galena | 7M | CO | BL |
| | b) | Write a brief notes on given rocks.
i. Granite ii. Conglomerate iii. Marble | 7M | CO | BL |
| 4 | a) | Define fold. Give a classification of folds with neat sketches. Write the mechanism of folds? | 7M | CO | BL |
| | b) | Explain importance of ground water exploration. | 7M | CO | BL |
| 5 | a) | Give a brief classification about metamorphic rocks. | 7M | CO | BL |
| | b) | Explain cone of depressions in groundwater movement. | 7M | CO | BL |
| 6 | a) | Explain causes and effects of earthquakes. | 7M | CO | BL |
| | b) | What is a landslide? Explain causes and effects of landslides and how to prevent their occurrence. | 7M | CO | BL |
| 7 | a) | Explain Electrical resistivity method. | 7M | CO | BL |
| | b) | What is Dam? Explain types of dams with neat sketches. | 7M | CO | BL |
| 8 | a) | Write about Geological considerations in the selection of a dam site? | 7M | CO | BL |
| | b) | Explain over break of tunneling. | 7M | CO | BL |