

Code No: 115AA

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, May - 2018

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART - A**

(25 Marks)

- 1.a) Write briefly about structural geology. [2]
- b) Write short notes on geological agents. [3]
- c) Write about economic minerals. [2]
- d) Discuss about role of study of physical properties of minerals in the identification of minerals. [3]
- e) Write about plunging and non-plunging folds. [2]
- f) Discuss about parts of a fault. [3]
- g) Write about Environmental Geology. [2]
- h) Discuss about geothermal method. [3]
- i) Write about overbreak. [2]
- j) Write short notes about subsidence over old mines. [3]

**PART - B**

(50 Marks)

2. Explain in detail about physical and chemical factors effecting weathering. [10]
- OR**
3. Explain about any one case history of failure due to geological draw backs. [10]
4. Explain in detail about types of form, hardness and degree of transparency for the identification of physical properties of minerals. [10]
- OR**
5. Explain in detail, forms of intrusive igneous rocks with a neat diagram. [10]
6. Explain about classification of joints and types of joints found in igneous and sedimentary rocks. [10]
- OR**
7. Discuss in detail about geological control of ground water movement and ground water exploration. [10]

8. Explain about occurrence and effects of folds and faults at the dam site. [10]

OR

9. Explain in detail about electrical resistivity method with a neat diagram. [10]

10. Explain about suitability of Igneous and Sedimentary rocks at tunnel site. [10]

OR

11. Explain about importance of ground water conditions at the tunnel site. [10]

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