

P6 P6 P6 P6 P6 P6 P6 F

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Code No: 125AA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, November/December - 2017

P6 P6 P6 ENGINEERING GEOLOGY P6 P6 P6 F
(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.

P6 P6 P6 PART - A P6 P6 P6 F

(25 Marks)

- 1.a) Define Petrology. [2]
- b) Explain importance of Structural Geology in Civil Engineering. [3]
- c) What is Dyke? [2]
- d) List the various Physical Properties of Quartz. [3]
- e) What is Richter scale? [2]
- f) Explain Dip and Strike with example. [3]
- g) What is ground Subsidence? [2]
- h) Explain Gravity methods? [3]
- i) Describe the effects of tunneling on the ground. [2]
- j) Explain classification of Tunnels. [3]

P6 P6 P6 PART - B P6 P6 P6 F

(50 Marks)

2. Explain in detail about Chemical Weathering. [10]

OR

3. Discuss about importance of Physical and Structural Geology in Civil Engineering. [10]

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4. Write in detail about the physical Properties of minerals. [10]

OR

5. Explain the structures and Textures of Metamorphic Rocks. [10]

6. Discuss about Earthquakes and their causes and effects. [10]

OR

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7. Write in detail about the classification of Faults with neat sketch. [10]

8. Discuss in detail about the Geological Considerations of Reservoirs with neat sketch. [10]

OR

9. Explain about the Seismic methods with neat sketch. [10]

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10. Describe in detail about Subsidence over Mines. [10]

OR

11. Describe in detail about Groundwater Considerations of Tunnels. [10]