

**R16**

Code No: 134AZ

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year II Semester Examinations, April - 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) What is Geology?
- b) What is weathering?
- c) What is Mohr's hardness?
- d) What is streak? List the streak of granite.
- e) Define the hade and want.
- f) What is cone of depression?
- g) What is landslide?
- h) What is earthquake?
- i) What is dam?
- j) What is settlement trough?

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**PART-B****(50 Marks)**

2. Discuss the importance of physical geology and petrology in the Civil Engineering. [10]

**OR**

3. What is weathering of rock? How does it affect the construction of reservoir? [10]

4. Discuss the physical properties of sphalerite and chalcopryite. [10]

**OR**

5. What is the sedimentary rock? Write the classification of sedimentary rock. [10]

6. What is unconformity? Write the different types of the unconformity with sketches. [10]

**OR**

7. What is fault? List the various types of the fault with sketches. Discuss the terminology associated with fault. [10]

8. Explain the gravity and magnetic method with examples. [10]

**OR**

9. What is Geo physical method? Explain the electric resistivity method with a neat sketch. [10]

10. Design the tunnel of radius "R" m located at 100 m deep. Assume your own condition. [10]

**OR**

11. Discuss the factors contributes for the success of reservoir. [10]

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