

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)

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|------|---|-----|
| 1.a) | What is Geology? | [2] |
| b) | What is weathering? | [3] |
| c) | What is Mohr's hardness? | [2] |
| d) | What is streak? List the streak of granite. | [3] |
| e) | Define the hade and want. | [2] |
| f) | What is cone of depression? | [3] |
| g) | What is landslide? | [2] |
| h) | What is earthquake? | [3] |
| i) | What is dam? | [2] |
| j) | What is settlement trough? | [3] |

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 chalcopyrite. [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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