

Reg. No. _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER B.TECH DEGREE EXAMINATION, JULY 2017

Course Code: **CE 205**Course Name: **ENGINEERING GEOLOGY (CE)**

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any 2 questions.

1. a) What is weathering? (2)
- b) Describe the types of weathering and their products. (13)
2. a) Describe the laboratory tests to assess the intensity of weathering. (8)
- b) Discuss the geological classification of soils. (7)
3. a) Write notes on different ground water zones. (7)
- b) What is an aquifer? Describe the types of aquifers. (8)

PART B

Answer any 2 questions.

4. Write the distinguishing properties with the chemical composition of the following minerals.
 a) Orthoclase b) Hornblende c) Kaolinite (5 marks each)
5. How do one differentiate Igneous rocks from Metamorphic rocks (15)
6. a) What is an earthquake? (2)
- b) Describe the terms: intensity and magnitude of earthquakes. (8)
- c) Write a note on plate tectonics. (5)

PART C

Answer any 2 questions.

7. Explain
 a) Rip currents. (7)
- b) Joints. (7)
- c) Write on the significance of faults in civil engineering. (6)
8. What are the geological factors to be considered in Dam construction? (20)
9. a) Classify landslides (7)
- b) Describe various methods used to protect the coastal areas from marine erosion. (7)
- c) Write a note on soil conservation measures. (6)