

Reg. No.: _____

Name: _____

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

CE205: ENGINEERING GEOLOGY (CE)

Max. Marks:100

Duration: 3 Hours

Draw neat sketches wherever necessary

Part A

(Answer any TWO questions)

- 1) Explain:
 - a) chemical weathering (7.5)
 - b) soil profile (7.5)
- 2) Describe vertical distribution of ground water (15)
- 3) What are:
 - a) exfoliation (4)
 - c) artesian wells (4)
 - d) Give an account of factors controlling groundwater movement (7)

Part B

(Answer any TWO questions)

- 4) Explain:
 - a) cleavage (5)
 - b) lineation and foliation (5)
 - c) chemical formulae of calcite and quartz (2.5x2= 5)
- 5) Discuss seismic waves and their properties (15)
- 6) Elucidate
 - a) Classification of rocks based on their origin (6)
 - b) Lithosphere and Asthenosphere (5)
 - c) Point load test (4)

Part C

(Answer any TWO questions)

- 7) Explain:
 - a) Folds (7)
 - b) faults (7)
 - c) their significance in civil engineering (6)
- 8) Discuss the different flood management strategies (20)
- 9) Elucidate on:
 - a) Longshore currents (7)Engineering significance of:
 - a) Dip and (7)
 - b) strike (6)