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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 foilation (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

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