Class Test on CE3131

Department of Civil Engineering

Raishahi University of Engineering & Tech· ·logy

Full Marks 20 (10+5+5)

Q.1. Define compaction and explain the principle of compaction.

Q.2. Mention some work sites where the compaction is needed.

Q.3. Draw the qualitative diagrams of standard and modified Proctor test results on a single sheet.

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Full Marks 20 (7+8+5)

Q.1. Briefly explain the different types of settlement and also write the causes of settlement.

Q.2. Derive the equation of primary consolidation settlement for normally consolidated soil.

Q.3. Draw the qualitative diagrams of e-log p curve and also write the uses of it.

Class Test-2, CE-3131

Time:15mins

Q1. Define Stress Paths. How will you calculate the c' and φ' using stress path method (use figure)

Q2. How Skempton's pore water pressure co-efficients are used in Geotechnology?

Q3. How you obtain the shear strength parameters using the unconfined compression test (use figure)

V sem

Geotechnical - I

Class Test on CE331

Department of Civil Engineering

Rajshahi University of Engineering & Technology

ull Marks 20 (7+5+8)

1. Explain the principle of compaction.
2. Mention some work sites where the compaction is needed.
3. Following are the details for the backfill material used in a vibroflotation project: D10 is 0.36mm, D20 is 0
2mm. Determine the suitability number. What would be its rating as a backfill material?