



PRESIDENCY UNIVERSITY,  
BENGALURU

SCHOOL OF ENGINEERING

TEST 2

Odd Semester: 2018-19

Course Code: CIV 215

Course Name: Estimation, Costing and Valuation

Branch & Sem: CIV & VII Sem Group-I

Date: 24 November 2018

Time: 1 Hour

Max Marks: 40

Weightage: 20%

**Instructions:**

- (i) Read the question properly and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and Non-programmable calculators are permitted.

**Part A**

Answer **all** the Questions. **Each** question carries **four** marks. (3x4=12)

1. Mention the difference between excavation, filling and backfilling.
2. Calculate lead and lift if the excavated earth is to be moved from 4m below ground to truck which is parked 150m away from the site of excavation.
3. Calculate the area of side sloping surface if the mean depth is 2.2m with side slope 2:1 for the length of 400m road.

**Part B**

Answer **all** the Questions. **Each** question carries **eight** marks. (2x8=16)

4. Explain the various methods adopted in earthwork calculations.
5. Calculate the quantity of earthwork using all three methods for 200m length for a portion of a road on an uniform ground the heights of the bank at two ends being 1.0 m and 1.6m. The formation width is 10m and side slopes 2:1. Assume there is no transverse slope.

Part C

Answer the Question. Question carries **twelve** marks.

(1x12 =12)

6. Estimate the quantity of steel in reinforcement of the beam given below:

