

KADI SARVA VISHWAVIDYALAYA
LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR.

B.E. 6th Semester

MID SEMESTER EXAMINATION

Subject Name : Advanced Construction Technology

Date/Day : 27/08/2014,

Subject Code : CV501

Time : 8:30 to 10:00 am

Max. Marks: 30

Instructions: 1) All questions are **compulsory**

2) Figures to the **right** indicate full marks.

3) Indicate **clearly**, the options you attempt along with its respective question number.

- Q.1** (a) Explain the term "Dewatering for construction". Explain in detail well point system. [5]
 (b) Write short note on sumps & deep well system. [5]

- Q.2** (a) What is Box caisson ? where is it adopted? Describe the procedure for sinking, giving advantages and disadvantages. [5]
 (b) Write short note on caisson diseases & Cutting edge. [5]

OR

- (a) What is well caisson ? Explain in detail. [5]
 (b) Narrate the various materials required for the construction of caisson. [5]

- Q.3** (a) Describe with sketches construction of under reamed piles. [5]
 (b) Describe the method of pile load tests for the determination of its bearing capacity. [5]

OR

- (a) Write note on frankie pile [5]
 (b) Differentiate between: Cast in situ pile and Precast pile [5]

-----**Best of Luck**-----