

**KADI SARV VISHWVIDHYALAYA**  
**LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR.**  
**B.E. 4<sup>th</sup> Semester**  
**MID-SEMESTER EXAMINATION**

**Date/Day : 07/03/2014, Friday**

**Branch : CIVIL ENGINEERING**

**Sub Code :**

**Subject Name: Building Construction**

**Time : 8:30 AM to 10:00 AM**

**Max. Marks : 30**

**Instructions:** 1) All questions are compulsory and Figures to the right indicate full marks.

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

- Q.1** (a) Describe the ingredients of reinforced cement concrete and explain the function of each ingredient. 5
- (b) Enlist types of doors. Write size of doors of residential buildings. Mention the thumb rule to decide the size of window. 5
- Q.2** (a) Explain under-pinning? When it is required? Explain pit method with sketches. 5
- (b) State briefly the requirement of good stair. 5
- OR**
- Q.2** (a) What is meant by scaffolding? Explain Needle Shoring. 5
- (b) Draw the sketch of following (any two) 5
1. Clerestorey window
  2. Battened, ledged and braced door.
  3. Corner window
  4. Flush door.
- Q.3** (a) What are different types of boring methods? Explain wash boring with neat sketch 5
- (b) Explain Raft Foundation. 5
- OR**
- (b) Discuss the various causes of failure of foundation with remedial measures. 5

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**B.E. 4<sup>th</sup> Semester**

Date/Day : 02/03/2015, Monday

Branch : CIVIL ENGINEERING

Sub Code : CV402

Subject Name: Building Construction

Time : 12:00 to 1:30 PM

Max. Marks : 30

**Instructions:** 1) All questions are compulsory and Figures to the right indicate full marks.

2) Indicate clearly, the options you attempt along with its respective question number

Q.1 (a) Explain the purposes for which sub-soil exploration is done. (5)

(b) Explain the comparative merits and demerits of English and Flemish Bond. (5)

Q.2 (a) What is sub-surface investigation? How do you decide the depth of exploration? (5)

(b) Discuss various causes of failure of foundation? What remedial measures would you adopt? (5)

**OR**

Q.2 (a) Define with sketch:  
King closer, Queen Closer, Stretcher, Header, Half Bat (5)

(b) Write a note on random rubble built to course stone masonry. (5)

Q.3 (a) Write a note on Racking Shores? (5)

(b) Explain shoring, underpinning and scaffolding. (5)

**OR**

Q.3 (a) Draw the various parts of door with neat sketch. (5)

(b) Draw following sketch: (5)

1. Battened, Ledged and Braced door
2. Framed and Panelled door