

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.ARCH. - SEMESTER-V EXAMINATION – SUMMER 2019

Subject Code:1055002

Date:15/05/2019

Subject Name: Building Construction-V

Time:02:30 PM TO 05:30 PM

Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) What is role of slab in construction. Explain any two slab with brief. (8)

OR

(a) Explain rivet, nut-bolt and welding connection in steel structure with neat sketches. (8)

(b) Differentiate between the following. (Any two) (4)

(i) Combine footing and continuous footing.

(ii) Shallow foundation and Deep foundation.

(iii) Simple footing and stepped footing.

(iv) Superstructure and Substructure.

Q.2 (a) Explain the given connections through sketches. (6)

(i) Column to foundation connection.

(ii) Beam to Column connection.

(iii) Column to Column connection.

(b) What is retaining wall. Explain types of retaining wall with neat sketches. (6)

Q.3 (a) Explain different method of foundation in black cotton soil (6)

OR

(a) Write explanatory note with sketches. (Any one) (6)

(i) Grillage foundation (ii) Raft foundation

(b) Describe under-reamed pile foundation with sketches construction method (6)

Q.4 (a) State a difference between Bearing pile and Friction pile. (4)

OR

(a) Write explanatory note on (Any two) (4)

(i) Sand pile (ii) Timber pile (iii) Vibro pile (iv) Pre-cast concrete pile
