

Enrollment No: _____ Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2021

Subject Name : Building Construction

Subject Code : 4TE03BCN1

Branch: B.Tech (Civil)

Semester : 3

Date :11/01/2022

Time : 11:00 To 02:00

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

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- Q-1 Attempt the following questions: (14)**
- a) Define the following: (08)**
- i) Deep foundation ii) Header iii) Flemish bond iv) Un course rubble masonry v) Queen closer vi) English bond vii) Tread viii) Landing
- b) Enlist the following: (06)**
- i) Types of footing ii) Types of brick bonds iii) Types of stone masonry iv) Types of flooring v) Types of window vi) Types of door.

Attempt any four questions from Q-2 to Q-8

- Q-2 Attempt all questions (14)**
- (a)** Explain the types of shallow foundation with neat sketches. (7)
- (b)** Write notes on foundation for Black Cotton soil with its types. (7)
- Q-3 Attempt all questions (14)**
- (a)** Describe the method of damp proofing in building for the following. (7)
- (i) Treatment to Foundation. (ii) Treatment to basement. (iii) Treatment to floor.
- (b)** Explain the various bonds in brick work with neat sketches. (7)
- Q-4 Attempt all questions (14)**
- (a)** Write the comparison between brick masonry and stone masonry. (7)
- (b)** Explain the various classifications of Lintels with a neat sketch. (7)
- Q-5 Attempt all questions (14)**
- (a)** Write notes on cavity walls with its advantages. (7)
- (b)** Explain the various classifications of Arches with a neat sketch. (7)



- Q-6** **Attempt all questions** **(14)**
- (a)** Explain any five types of flooring. **(7)**
 - (b)** Discuss the requirements of a good stairs. **(7)**
- Q-7** **Attempt all questions** **(14)**
- (a)** Explain the various classifications of doors in detail. **(7)**
 - (b)** Explain any four in detail with neat sketch. **(7)**
- Q-8** **Attempt all questions** **(14)**
- (a)** Explain the various types of single roofs with neat sketch. **(7)**
 - (b)** Explain the commonly used roof covering materials for pitched roofs. **(7)**

