C.U. SHAH UNIVERSITY Winter Examination-2018

Subject Name: Building ConstructionSubject Code: 4TE03BCN1Branch: B.Tech (Civil)

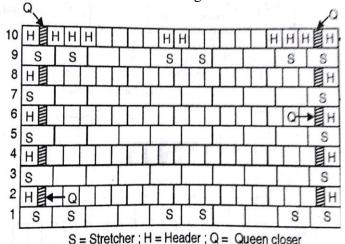
Semester: 3	Date: 29/11/2018	Time: 02:30 To 05:30	Marks: 70
beinester. 5	Date: 27/11/2010	11110. 02.50 10 05.50	Mai Ko. 70

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.

Q-1 Attempt the following questions:

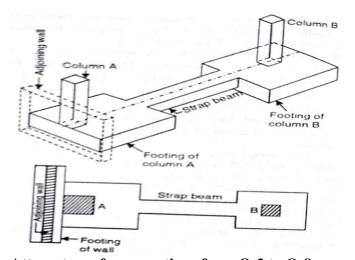
a) Name the bond as shown in figure.



b) What is the mix proportion utilize for mortar in plastering work? 1 c) What are the different types of roof? 1 d) For large spans the most suitable type of roof preferred is..... 1 e) Enlist various components of building. 1 What is steel frame structure? f) 1 g) Define pointing. 1 **h**) What do you understand by a "shallow foundation"? 1 Draw a plan and section of single flight. **i**) 1 In airconditioned buildings a door has to serve both purposes of opening and closing j) 1 and the most suitable type of door is..... **k**) How do you determine the consistency of mortar? 1 What do you understand by the term "Anti-termite treatment"? I) 1 **m**) Brick floors are used in..... 1 **n**) Name the foundation as shown in figure. 1



(**14**)



Attempt any four questions from Q-2 to Q-8 Q-2 Attempt all questions (14)Give sketches of king-post truss and queen-post truss. Compare the two. (7) (a) Explain various types of plaster finishes. (7) **(b)** Attempt all questions Q-3 (14)Explain the method of constructing cement concrete flooring. What is the use of **(a)** (7) granolithic finish and how is it made? Discuss the various consideration made in planning of stair cases. Illustrate the **(b)** (7) different types of stair cases generally used, indicating their suitability for specific use. **Attempt all questions** (14)Q-4 Classify, with the help of sketches, various types of windows based on their method (7) **(a)** of operation or opening. Write a short note on: Building frame (7) **(b)** Attempt all questions **Q-5** (14)What are the causes of failure of foundation? What remedial measures would you **(a)** (7) adopt? What are the points to be keep in mind during supervision of stone masonry **(b)** (7) construction? Attempt all questions **Q-6** (14)Explain the method of pointing. **(a)** (4) Write a note on various defects in plastering. **(b)** (3) Explain how do you achieve fire-resistance construction of the following element: (c) (7) (a) Walls and column (b) Floors and roofs Attempt all questions (14)Q-7 Enumerate different types of foundations you would recommend under different **(a)** (7) situations and soil conditions. Explain them briefly. Compare brick and stone masonry. **(b)** (7) **Q-8** Attempt all questions (14)Explain the factors that affect the strength of brick masonry. **(a)** (7) Write a note on various components of a building. **(b)** (7)

