

Total No. of printed pages = 3

24/1/19

CE 131303

Roll No. of candidate

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Azara, Hatkhowapara,
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2019

B.Tech. (CE) 3rd Semester End-Term Examination

BUILDING CONSTRUCTION

(New Regulation)

(w.e.f. 2017-2018)

Full Marks – 70

Time – Three hours

The figures in the margin indicate full mark
for the questions.

Answer Question No. 1 and any *FOUR* from the rest.

1. Answer the following : (MCQ/Fill in the blanks)
(10 × 1 = 10)
- (i) The brick laid with its length parallel to the face of the wall is known as _____.
 - (ii) The minimum thickness of a wall in stone masonry should not be less than _____.
 - (iii) The projecting part of the tread beyond the face of the riser is called _____.
 - (iv) In a public building the stairs should be located near the _____ of the building.

[Turn over

- (v) The arrangement of supports provided underneath the existing structure disturbing its stability, is known as_____.
- (vi) The type of stone masonry commonly adopted in the construction of residential building is _____.
- (vii) The temporary rigid structure having platforms raised up as the building increases in height is called_____.
- (viii) A bat is the portion of a_____.
- (ix) In designing a stair, the sum of going (in cm) and twice the rise (in cm) should be equal to _____.
- (x) When two or more footings are connected by a beam, it is called_____.
2. (a) Explain in details the utility of the masonry units and floor structures of a building. (10)
- (b) What are the various types of drawings required for the construction of a building? Explain in detail. (5)
3. (a) Explain in detail the concept of orientation of a building. (5)
- (b) What are the circumstances for use of a Mat foundation? Explain. (5)
- (c) Explain the applications of Well Foundations. (5)
4. (a) Explain English Bond with neat sketches. (5)
- (b) Discuss in detail Flint Walling with neat sketches. (5)
- (c) Write about the circumstances under which a raking shore is provided. (3)
- (d) Why shuttering is provided in a building? (2)

5. (a) Explain single scaffolding with neat sketches. (5)
- (b) Plan a stair case for a residential building in which the vertical distance between each floor is 3.36 m. The size of the stair hall is limited to 4.5 m × 3 m. (10)
6. (a) Explain the method of construction of Terrazzo Flooring. (10)
- (b) Explain the various parts of a roof truss. (5)
7. (a) Draw the king post truss and label its various components. (5)
- (b) Explain framed door. (3)
- (c) Write briefly about clerestorey windows. (3)
- (d) Draw the sketch of a fan light. (4)
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