

Total No. of printed pages = 3.

CE 131303 NR

Roll No. of candidate

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5/31

2021

NA CHOWDHURY CENTRAL LIBRARY  
(MINT & SIPS)  
Address: Hattar, Chapara,  
Durgam, - 781017

B.Tech. 3<sup>rd</sup> Semester End-Term Examination

Civil Engineering  
BUILDING CONSTRUCTION  
(New Regulation)

Full Marks – 70

Time – Three hours

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

Answer question No. 1 and any *four* from the rest.

1. Choose the correct answer :

(10 × 1 = 10)

(i) The portion of bricks cut across the width in half is called

- (a) Half split
- (b) Half closer
- (c) Half bed
- (d) Half bat

(ii) Baluster in a stair is the \_\_\_\_\_ member supporting \_\_\_\_\_

- (a) Horizontal, handrail
- (b) Vertical, landing
- (c) Vertical, handrail
- (d) Horizontal, landing

(iii) Seasoning of timber is the process of

- (a) Burning timber
- (b) Adding preservatives
- (c) Removing water
- (d) Adding glaze

[Turn over

- (iv) The load of the structure distributed by the foundation is \_\_\_\_\_.
- (a) Concentrated
  - (b) Varying
  - (c) Uniform
  - (d) Eccentric
- (v) A common footing provided for two or more columns is known as \_\_\_\_\_.
- (a) Continuous footing
  - (b) Combined footing
  - (c) Cantilever footing
  - (d) Eccentric footing
- (vi) Which type of foundation is used for the construction of building on black cotton soil?
- (a) Inverted arch foundation
  - (b) Floating foundation
  - (c) Mat foundation
  - (d) Grillage foundation
- (vii) Which of the below is constructed above doors, windows?
- (a) Joist
  - (b) Purlin
  - (c) Lintel
  - (d) Arch
- (viii) \_\_\_\_\_ is known as Substructure of the building.
- (a) Plinth
  - (b) Trenches
  - (c) Foundation
  - (d) Footing
- (ix) A \_\_\_\_\_ line usually parallel to the plot boundaries and laid down in each case by the Authority, beyond which nothing can be constructed towards the site boundaries.
- (a) Building line
  - (b) Control line
  - (c) Property line
  - (d) Plot line

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(x) Due to \_\_\_\_\_ the dampness finds its way to the floors through the substructure.

- (a) Action of rain
- (b) Exposed tops of walls
- (c) Raising of moisture from ground
- (d) Condensation

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2. (a) What are the general principles in brick masonry. What are different types of brick masonry. (3+4=7)
- (b) What are the basic requirements of a foundation. How are foundations classified according to their depth. (5+3=8)
3. (a) Distinguish between live load and dead load. (2)
- (b) Briefly describe various types of stairs. Differentiate between escalator and lifts? (5+3=8)
- (c) Describe the procedure for construction of cement concrete floor in ground floor. (5)
4. (a) State the aspects that govern the building bye laws. (6)
- (b) State the merits and demerits of flat roofs. Discuss the advantages of steel roof trusses over timber trusses. (5+4=9)
5. (a) Explain the essential requirements of good flooring material. Give example. (7)
- (b) What do you mean by scaffolding? What are the component parts of a scaffold? (3+2=5)
- (c) What do you mean by dressing of stones. Name different types of stone masonry. (1+2=3)
6. (a) Compare brick masonry and stone masonry. (6)
- (b) Write a note on DPC and plastering of paris. (2×2.5=5)
- (c) What is site exploration. What do you understand by bearing capacity of soil? (2+2=4)
7. (a) What are the constituents of good brick earth. State the harmful ingredients in brick earth. Describe how bricks are classified. (3+2+4=9)
- (b) Briefly discuss the different types of floor. (6)