



RN-6745

B. E. III (Sem. V) (Civil) Examination
May / June – 2010
Building Construction

Time : Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दशावलि निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. 3 (Sem. 5) (Civil)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Building Construction"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="7"/> <input type="text" value="4"/> <input type="text" value="5"/>	Section No. (1, 2,.....) : <input type="text" value="1&2"/>
Student's Signature	

- (2) Answer **two** sections separately.
- (3) Assume missing data suitably with app. remarks.
- (4) Draw sketches wherever necessary.
- (5) Figures to the **right** indicate full marks.

SECTION - I

- 1 (a) Answer in **one** sentence or so. 5
 - (i) Define foundation.
 - (ii) Give the function of a cavity wall.
 - (iii) State the names of shallow foundation.
 - (iv) What is bearing capacity?
 - (v) Draw sketch of a combined footing.
- (b) State true or false. 5
 - (i) English bond has better appearance than Flemish bond.
 - (ii) Lowest bearing capacity is that of moist clay.
 - (iii) Brick backed Ashlar is a kind of composite masonry.
 - (iv) Cavity wall helps in increasing insulation of a structure.
 - (v) Mortar mix does not affect strength of brick masonry.
- 2 (a) State the types of stone masonry. Explain rubble masonry in detail with neat sketches. 7
- (b) Differentiate between English bond and Flemish bond. Explain garden wall bond. 7

OR

- (b) Write short note on Grillage foundation. 7
- (c) Write short note on timber flooring. 7

- 3 (a) Discuss different types of lintels. Explain RCC lintel with a neat figure. 7
- (b) Write short notes on : (any **three**) 12
- (i) Dutch Arch
 - (ii) Cement Concrete flooring
 - (iii) RCC beam and slab flooring
 - (iv) Timbering of trenches
 - (v) Achlar masonry.

SECTION - II

- 4 (a) Define following term : (any **five**) 5
- (i) Shuttering
 - (ii) Jamb
 - (iii) Winders
 - (iv) Pitch
 - (v) Ledger
 - (vi) Reveal.
- (b) Explain in brief, what are the objectives of providing plaster? 5

OR

- (b) Discuss briefly, requirements of staircase. 5
- 5 (a) Differentiate clearly between brick-layer's scaffolding and mason's scaffolding. Explain brick layers scaffolding with neat sketch. 8

OR

- (a) Describe with neat sketch, six paneled door
 - (b) Draw neat sketch of Queen-post truss and explain. 6
 - (c) Discuss various specifications considered made for planning of staircases. Illustrate the different types of stair cases generally used, indicating their suitability for specific use. 6
- 6 (a) Differentiate between following : (any **two**) 8
- (i) Doglegged and open newel
 - (ii) Fixed and pivoted window.
- (b) Write short note on (any **three**)
- (i) Defects in plaster
 - (ii) Plastic paint
 - (iii) Needle scaffolding
 - (iv) Casement window
 - (v) Requirement of good form work