Seat No.	

S.E. (Civil) (Part - I) (Semester - III) Examination, Dec. - 2013
BUILDING CONSTRUCTION
Sub. Code : 42657

Day and Date : Monday, 30 - 12 - 2013   **Total Marks : 100**
Time : 9.30 a.m. to 1.30 p.m.

Instructions :   1)   Question No. 1 is compulsory.
2)   Attempt any two questions from the remaining in Section - I.
3)   Use full imperial sheet for Section - II.

SECTION - I

Q1) a)   Draw sectional elevation of an isolated column footing with R.C.C. details.
[10]

   b)   State and explain different types of stone masonry.   [8]

Q2) a)   Enlist different types of bonds in brick masonry. Draw neat sketches of any two bond types.   [8]

   b)   Explain methods of compacting and curing of concrete for slab.   [8]

Q3) a)   Explain method of heat insulation of buildings.   [8]

   b)   Explain difference between P.C.C. and R.C.C. Explain their use with examples.   [8]

Q4) Write short notes on the following: [16]
   a)   Mortars
   b)   Pile foundation
   c)   Anti-corrosive treatment
   d)   Anti -termite treatment

P.T.O.

SECTION - II

Q5) Design and draw Plan and Section of a R.C.C. dog-legged stair with suitable scale for the following data. Write the design steps on the drawing sheet. **[25]**

Height to be negotiated = 3.00m

The stair hall size = 2.0m × 4.5m (internal)

Width of stair = 1.00m

Assume suitable data wherever necessary.

Q6) Draw to a scale of 1:10, a Sectional Plan, Sectional Side View and Elevation of a T.W. paneled door having two shutters for the following data, **[25]**

Clear opening: 1000mm × 2100mm

Frame size: 100mm × 75mm,

Styles: 125mm × 40mm.

Assume suitable data wherever necessary.