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Total No. of Pages : 2

S.E. (Civil) (Part - I) (Semester - III) Examination, December - 2014
BUILDING CONSTRUCTION AND MATERIALS (Revised)
Sub. Code : 63342

Day and Date : Wednesday, 10 - 12 - 2014

Total Marks : 100

Time : 10.00 a.m. to 01.00 p.m.

- Instructions :
- 1) All the Questions are compulsory.
 - 2) Use full imperial sheet for drawing.
 - 3) Consider suitable data if required.

SECTION - I

- Q1)** a) List the types of cement and explain properties of each with specific use. [8]
- b) Enumerate the various classes of rubble masonry. What are the important points to be kept in view while carrying out stone work? [9]
- Q2)** a) List the requirement of a building as a whole and explain any three in details. [8]
- b) If one of the column lies just at the edge of property line (plot boundary) then which foundation is more suitable? Explain with neat sketch. [9]

OR

- a) Explain the uses of aluminium, glass, plastic & chemicals in construction.
- b) What is composite masonry? Explain uses of composite masonry with the materials used for it.

P.T.O

Q3) Write short notes (any four) :

[16]

- Selection of floor covering material.
- Types of lintel.
- Column formwork.
- Types of trusses and their use.
- Raft foundation.

SECTION - II

Q4) Draw a sectional plan elevation & sectional side view for a panel door with a following data - [25]

- Clear opening - 1200 × 2100 mm
- Frame size - 75 × 150 mm
- Partially glazed panel
- No. of Shutters - 1

(Consider suitable data as per requirement)

OR

Draw a sectional plan, elevation and sectional side view for a T.W. casement window with ventilator for following data -

- Glazed window
- Size of window - 1200 mm × 1200 mm
- Height of ventilator - 300 mm

(Consider suitable data as per requirement)

Q5) Design and draw plan & section of R.C.C. Quarter turn staircase for residential building having floor height 3.3 m (Consider suitable data as per requirement).

[25]

