

Seat No.	
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S.E. (Civil) (Part - I) (Semester - III) Examination, December - 2015

BUILDING CONSTRUCTION AND MATERIALS (Revised)

Sub. Code : 63342

Day and Date : Friday, 11 - 12 - 2015

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 bricks and write specific engineering properties of each brick. **[8]**

b) Write the various building components in sequence from bottom to top and write specific function of each components. **[9]**

Q2) a) Write the three basic requirements of the building and explain each of them. **[9]**

b) What is composite masonry and explain brick-stone composite masonry with neat sketch. **[8]**

OR

a) Explain strap foundation and there suitability in details with neat sketch.

b) Explain the various methods & systems used for water proofing purpose.

Q3) Write short notes (Any Four): **[16]**

a) Stability consideration of Arch.

b) Requirement of good stair-case.

c) Pile foundation.

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- d) Ashlar Masonry.
- e) Natural and artificial wood.
- f) Concept of proflex.

SECTION - II

Q4) Draw Sectional Plan, elevation & sectional side view for wooden paneled door with following data. [24]

- a) Clear opening - 1100 X 2100 mm
- b) Frame size - 80 X 125 mm
- c) No. of shutter - one
- d) No. of panel - Two

(Consider suitable data)

OR

Draw neat sketch & label various parts (Any three):

- a) Couple roof -
- b) Arch -
- c) Jack arch flooring -
- d) Brick lintel -
- e) Pivoted window -

Q5) Draw a plan & section of R.C.C. bifurcated stair for residential building having floor height 3.6 m. [26]

(Consider suitable data)

