

SC-45

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Seat No.	
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S.E. (Civil) (Semester - III) (Revised) Examination, December - 2019

BUILDING CONSTRUCTION AND MATERIALS

Sub. Code : 63342

Day and Date : Tuesday, 3 - 12 - 2019

Total Marks : 100

Time : 9.30 a.m. to 1.30 p.m.

- Instructions :
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Assume suitable data if necessary.

SECTION - I

- Q1) a) List various types of brick used in construction and write their specific use. [8]
- b) Explain the basic requirements of building as whole with respect to a residential building. [8]
- Q2) a) State and explain various types of stone masonry with neat sketch. [8]
- b) Describe technical terms in arches with neat sketch. [8]
- Q3) Write Short notes (Any three) [18]
- a) Concrete flooring.
 - b) Use of admixtures and fly ash in construction industry.
 - c) Column foundation.
 - d) Lift and escalator.
 - e) Roof covering materials.

P.T.O.

SECTION - II

Q4) Design & Draw a plan & Section of a RCC open well stair case for apartment with following data [25]

- a) Floor to floor height - 3100mm
- b) Stair case hall size - 4200mm X 4200mm
- c) Flight Width - 1200mm

(Consider suitable data as per requirement)

Q5) Draw Sectional Plan, Elevation & Sectional side view of a teak wood paneled door with following data [25]

- a) Clear opening - 1600mm X 2100mm
- b) Frame size - 100mm X 1500mm
- c) No. of Shutters - 2 No.
- d) No. of panels per shutter - 3 No.

(Consider suitable data as per requirement)

OR

Draw Sectional Plan, Elevation & Sectional side view of a teak wood fully glazed window with following data [25]

- a) Clear opening - 700mm X 1200mm
- b) Frame size - 75mm X 125mm

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