

(2)

Ex/ARCH/T/225/68/2012(S)

3. Without storing any calculations show in a tabular form what possibly– (i) Column sizes with reinforcement in different flows, (ii) Slab design, (iii) Beams and (iv) foundation in a framed reinforced structure for a residential building in Kolkata region. 5x5
4. (a) What will be covers to reinforcement in different location of a building for reinforced concrete elements?. 8
(b) Write a note on expansion joint in a building. 8
(c) Write a note on number of floors possible for a residential building using brick work. 9
5. Draw different possible designs of steel trusses (showing geometry in elevation only). 25

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BACHELOR OF ENGG. ARCHITECTURE EXAMINATION, 2012

(2nd Year, 2nd Semester, Supplementary)

Structures for Architects

Time : Three hours.

Full Marks : 100

Answer any **four** questions.

1. Write notes on any **one** of the following. Use sketches to explain : 25
- (a) Tensile structure in architecture.
(b) Shell structure in architecture.
2. Write short notes on the following :
- (a) Cube test of concrete. 6
(b) Stripping time of shuttering for concrete work in different location of a building. 6
(c) What are the standard diameters of steel bars used as reinforcement in concrete (upto 30mm dia). 6
(d) What are the corresponding weights per meter length of the reinforcing steel mentioned above (select only 5 cases). 7

(Turn Over)