

B.E. Sem-VIII C.A.
 Design Drawing of Reinforced Concrete Structures

(4 Hours)

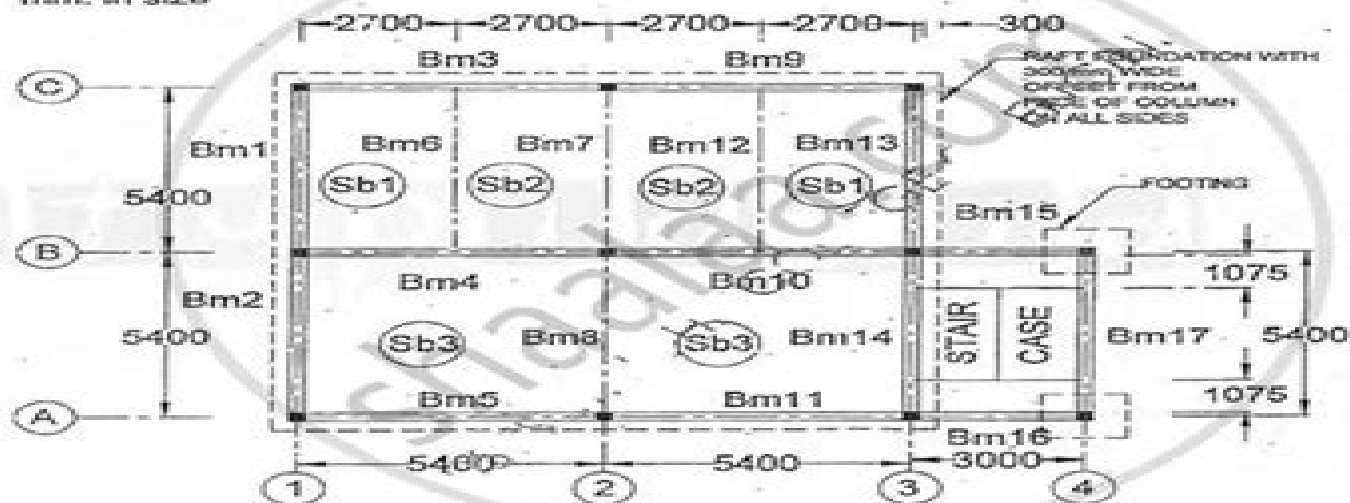
QP Code : 8131

[Total Marks : 100]

26 MAY 2015

- N.B (1) Question No.1 is compulsory.
 (2) Attempt any three questions out of remaining questions.
 (3) Use of IS 456 is permitted.

1 Figure below shows a typical framing plan for a office building. The design live load is 4 KN/m^2 and floor finish load is 1.5 KN/m^2 . All external beams and beams Bm4 and Bm10 are supporting 230 mm thick brick wall. Floor to floor height is 3.2 m. Grade of concrete M 20 and steel Fe 415. All columns are 300 mm x 300 mm. in size



Design and draw suitable sketches showing designed reinforcement for,

- | | |
|--|----|
| (a) Slab Sb ₁ - Sb ₂ | 15 |
| (b) Beam Bm ₇ - Bm ₈ | 25 |

Draw to the scale suitable sketches showing designed reinforcement.

<<<OR>>>

- | | |
|--|----|
| 1. (a) Design by approximate method a rectangular R.C.C water tank 6.0 m x 4.0 m in plan and 3.3 m in height. Tank is resting on firm ground. Design side walls and base slab. Grade of concrete is M 25 and steel is Fe 415. Check the design for safe stresses. Draw plan @ 1.0 m above base showing reinforcement. Also draw necessary sections showing reinforcement detail. | 32 |
| (b) Explain with sketches various type of joints for water tanks. | 08 |

[TURN OVER]

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