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Question Paper Code: 35101

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fifth Semester

Civil Engineering

01UCE501 – DESIGN ON REINFORCED CEMENT CONCRETE AND MASONRY
STRUCTURES

(Regulation 2013)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

- In working stress method, the modular ratio ' m ' for M20 grade of concrete is
(a) 11 (b) 9.33 (c) 13.33 (d) 18.67
- Partial safety factor for concrete in limit state method is
(a) 1.2 (b) 1.15 (c) 1.4 (d) 1.5
- The maximum spacing of vertical shear reinforcement in beams shall not exceed
(a) 0.5 times effective depth (b) 0.75 times effective depth
(c) 0.4 times effective depth (d) 0.6 times effective depth
- The design bond stress of plain bars in tension in M30 grade of concrete is
(a) 1.5 (b) 1.2 (c) 1 (d) 1.4
- The behaviour of one way slab of unit width in flexure is similar to the behaviour of
(a) column (b) footing (c) beam (d) wall
- The analysis of slab spanning in one direction is done by assuming it to be a beam of
(a) 1 m length (b) 1 m width
(c) 1 m² area (d) none of these
- The slenderness ratio of a RCC long column is greater than
(a) 20 (b) 15 (c) 12 (d) 16
- When the ratio of effective length of the column to its least lateral dimension does not exceed 12, it is termed as a

