## SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMTSTER END EXAMINATIONS (SUPPLEMENTARY), DECEMBER-2015

## B. ARCH, II YEAR, III SEMESTER BC-3: BUILDING CONSTRUCTION

## Time - 3.00 Hours

Maximum Marks - 100

- a) Answer any Four questions out of 1 to 7 questions.
- b) Question No. 8 is compulsory and <u>answer any four</u> out of six subquestions.
- c) Use neat sketches wherever necessary.
- Q1. (i) Explain in short with sketches

(3x2=

6M)

- (a) Tread (b) Pitch
- (c) Landing
- (ii) Draw plan and longitudinal section of a 'dog (14M)
   legged staircase' in 1:50 scale as per the
  details below
  - Level difference between floors is 300cm
  - Riser= 15cm
  - Tread=30cm
  - Width of staircase= 120cm
  - Material RCC
- Q2. (i) Explain the difference between RCC and Ferro (5M) cement.
  - (ii) Draw detailed plan and section of one way (15M) RCC slab for a room of 3x6 m with load bearing walls of 23 cm thick (Brick masonry).
    - Slab TK = 10 cm
    - Main bars = 8 mm dia @ 15 cm c/c
    - Distribution bars = 8 mm dia @ 20 cm c/c

Q3. Design a 'Sliding' metal gate with all details (20F) With respect to metal joints and fixing to the compound wall size of opening = 3.6m height of gate = 1.5mDraw all the necessary details (plan, elevation, Q4. (20M)sections) for built in wardrobe. Q5. (i) Explain any two types of partition walls. (2x10 =(ii) With a detailed section, explain the laying of a 20M) interlocking paver blocks. (i) Briefly explain any four types of surface Q6. (2x10 =finishes for wood. 20M) (ii) Explain the processes involved in applying Emulsion paint for an internal wall. (i) Explain any two types of RCC footings with Q7. (2x10 =detailed drawings. 20M) (ii) Explain a typical wooden panelling details with neat sketches. Write short notes 08. (4x5 =i. Sliding door 20M) Cover blocks ii.

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Anthropometry in Kitchen

Development length Island Kitchen

Shear reinforcement

iii.

iv.

v. vi.