SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR), NOVEMBER-2015
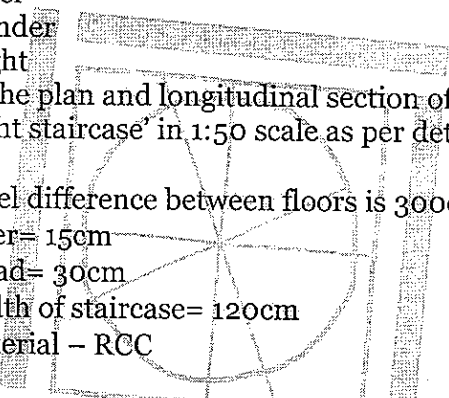
B. ARCH, II YEAR, III SEMESTER

BC-3: BUILDING CONSTRUCTION

Time – 3.00 Hours   **Maximum Marks - 100**

a) *Answer any <u>Four questions out of 1 to 7 questions</u>.*
b) *Question No. 8 is compulsory and <u>answer any four</u> out of six sub-questions.*
c) *Use neat sketches for explaining.*

Q1. (i) Explain in short with sketches   (3x2=
      (a) Riser   6M)
      (b) Winder
      (c) Flight
   (ii) Draw the plan and longitudinal section of a   (14M)
      'straight staircase' in 1:50 scale as per 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 PCC   (5M)
   (ii) Draw detailed plans and section of a column
     and it's footing in 1:10 scale as per details below.   (15M)
- Column size = 25 x 25 cm
- Column footing = 120 x 120 cm
- D= d1+d2; d1 =25 cm d2 = 35 cm
- Reinforcement bars for column – 4nos , 12mm dia
- Stirrups for column-8mm dia @15cm c/c
- reinforcement mat for footing–10mm dia @15cm c/c both ways.

R.T.O