

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA
B. ARCH, II YEAR - III SEMESTER EXAMINATION (SUPPLEMENTARY), JAN - 2015
BUILDING CONSTRUCTION (BC-3)

Maximum Marks – 100

Time – 3.00 Hours

- a) Answer any Five questions*
b) Question NO. 8 is compulsory.

- Q1. Explain types of paving material used for differently abled people. Explain with necessary details along with neat sketches. **(20)**
- Q2. Explain typical cross section details of external paving. Explain with various materials used. List out various measures to be undertaken prior to laying of paving material. **(20)**
- Q3. Define partition and what are the different types of partitions used in buildings? Support the answers with neat sketches. **(20)**
- Q4. Sketch the details of Gypsum board partitions. Answer should be supported with sketches, showing plan, elevation and one detail. The size of the opening is 2.8m X 2.1 m. **(20)**
- Q5. a) Illustrate typical parts of a steel gate with appropriate sketches. **(15)**
b) Sketch any one of the below listed details for sliding doors. **(05)**
(i) Top Rail (iii) Bottom Guide
(ii) Bottom Rail (iv) Top guide

(Contd.,)

Q6. Illustrate the “Longitudinal Cross section” of “Dog legged” stair case as per the details given below with neat sketches. (20)

- (i) FFL 2 FFL = 3.6 metres (Finished floor level)
- (iii) Riser = 150 mm
- (iii) Tread = 300 mm
- (iv) Staircase width = 2 meters
- (v) Specifications for the staircase shall be worked during the “studio exercise”

Q7. a) Illustrate any 5 types of staircase with sketches (20)

b) Write the specifications of “Dog Legged” staircase worked during the studio exercise.

Q8. Write short notes on any **Four** of the following. (4 X 5 = 20)

Concrete partitions

- a) Glass partitions
- b) Sliding doors
- c) Cross section details of curb used in external paving. Explain with few alternatives along with neat sketches.
- d) Application of Mezzanine Floors in various types of buildings.
- e) As per NBC – 2005, what is the “Minimum head room clearance in staircases” and minimum width of staircase for public buildings.