Exam No: _____

GANPAT UNIVERSITY

B. Tech. Semester: 3rd Semester: Civil Engineering

REGULAR EXAMINATION– NOV-DEC 2015

2CI 304: Building Planning and Design

TIME: 3 HRS

TOTAL MARKS: 60

Instructions: (1) This Question paper has two sections. Attempt each section in separate answer book.
(2) Figures on right indicate full marks.
(3) Assume Suitable data.
(4) Be precise and to the point in answering the descriptive questions.

Section - I

Que. – 1	(A)	List out principles of architectural composition. Explain any three in detail with figure.	6
	(B)	Explain the different terminology of stair with neat sketch.	4

OR

Que. – 1	(A)	What is planning? List out principal of planning of building and explain any two briefly.	6
	(B)	What is scale? How to represent the scale in drawing sheet?	4
Que. – 2	(A)	Discuss the codal provision of brick masonry.	5
	(B)	Draw the plan of a stair case for a residential building in which the vertical distance between each floor is 3.8 mt. the size of the stair hall is limited to 4.5m x 3m.	5

OR

Que. – 2	(A)	What is plate tectonic? Explain it briefly.	5
	(B)	List out the different type of drawing and also explain site plan and foundation plan with figure.	5
Que. – 3	(A)	**Explain any five:**	5

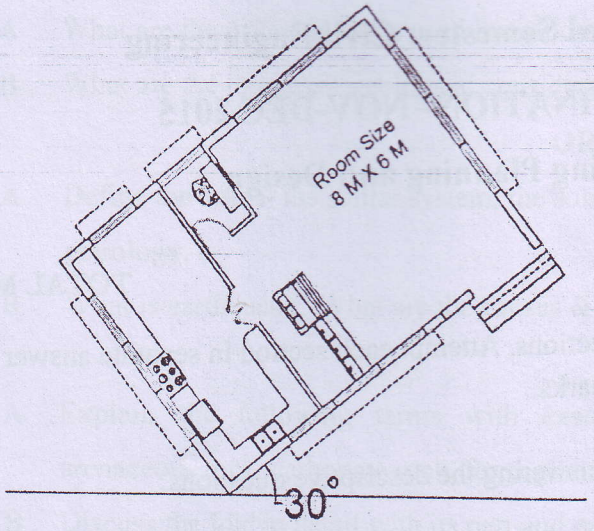
1.Regulations 3.Norms 5.Built-up area
2. floor area ratio 4.Parapet 6. Canopy

	(B)	**Draw sign and symbol:**	5

1.Right side hung door 3.fire hydrant 5.Top hung window
2. Hard core 4. Stop valve 6.Glass

Section – II

Que. – 4 Draw the perspective of given plan. **10**



Door Size:- 1.2 X 2.1 m

Window Size:- 1.2 X 1.2 m

Lintel Projection Size: 0.45 m

Tread:- 0.3 m

Rise:- 0.15 m

OR

Que. – 4 Draw the perspective view of 4 riser step which having a length of 2 m and width of 0.9 m the trade size are equally distributed and height of step is 0.6 m. RHP and LHP having the height of 1.2m from the respective distance. Assume suitable scale. **10**

Que. – 5 Design a residential building for the following requirements: **15**

(a) Drawing room

(b) 2- bed room (one with attached toilet)

(c) store room

(d) kitchen cum dining room

(e) study room

(f) WC and bath

(g) front verandah

Plinth area not exceeds 1400 sq.ft. Plan the building and draw to a suitable scale draw the following views:

A. Plan with schedule of doors and windows.

B. One section showing maximum details.

OR

Que. – 5 Design a Public building for 300 person, max 5 story load bearing structure with parking space around 60% of plot area, which having a plot area of 3400 sq.mtr. The road 12 m wide is on west side parallel to short side of plot. **15**

Que. – 6 Draw a Suitable elevation for plan in Q 5 which you had drawn. **5**

END OF PAPER