GANPAT UNIVERSITY B. TECH. SEMESTER III CIVIL ENGINEERING REGULAR EXAMINATION NOV / DEC - 2011 C – 304:BUILDING PLANNING AND DESIGN

Time: 3 Hours

TOTAL MARKS-70

Write short notes of

Instructions: - (1) Answer to the two sections must be written in separate answer books.

- (2) Figures to the right indicate full marks.
- (3) Assume suitable data if required.

Section - I

- Plan a residential bungalow, single storey and load bearing structure to be built Q.1 (12) on plot admeasuring 20m x 17m. The road 10 m wide is on N-S side parallel to shorter side of plot. The provision for maximum built up area is 50 %. Internal stair case must be provided. Take FSI=1. Fulfill the following requirements at ground floor:
 - (a) Drawing room (b) two-bed room (one with attached toilet) (c) Kitchen cum store room (d) Dining Room (e) WC and bath. (f) Pooja room. Assume necessary data required.

Draw front elevation of building you have planned in Question no. 1. Q.2

(12)

(B).

OR

- Draw the suitable section of Residential building you have planned in Question Q.2 (12)no. 1 with full details of specification and symbols.
- Q.3 (A) Draw a site plan and schedule of openings for building you have planned in (6)Question no 1.
 - (B) Explain in detail with neat sketch which types of precaution we should take in (5) horizontal layout during the earthquake as an architect.

OR

- Q.3 (A) Draw symbols for :- Bell, Exhaust fan, Indian type W.C., Wood Work, (5)**Revolving Door**
 - (B) Explain in detail with neat sketch which types of precaution we should take in (6) vertical layout during the earthquake as an architect.

Page 1 of 2

<u>Section – II</u>

Q.4 (A) What is light plane? Define $63^{\circ}\frac{1}{2}$ rule for fixing the height of buildings. (6))
(B) What is Orientation? Give C.B.R.I recommendation for orientation of buildings. (6)	
Q.4 (A) Explain the function of different components of building with figure. (6)
(B) Draw neat sketch of (a) Fully paneled door (b) Section of R.C.C. Chajja with (6 lintel.)
Q.5 (A) What is building bye – law? Write short note on Floor space index or Floor area (6 ratio.)
 (B) List out principles of architectural composition. Explain (a) Unity (b) Contrast. (5) OR)
Q.5 (A) What is meant by byelaws? Briefly explain the function of local authority. (6)
(B) Write short notes on (a) Roominess (b) Grouping. (5)
Q.6 Draw two point perspective view of object shown in fig.1 below. Assume (12 suitable data necessary.	2)
shorter side of plot. The power statement built up area is 50 %. Internal	
state case must be provided at 3500	
3000 2500 2000 5000 5000 5000 5000 5000	
Assume necessary data require	
Draw front elevation of building you we when a way on no. 1 (12)	
PI CTURE PLANE	
Draw the suitable section of Residential building you have another in Onestion (12)	
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B) Explain in de 11 with leat sketch which types of precaution we visual with (5)	
horizontal layout during the earthquake as an architect.	
90	
A) Draw symbol for : The second second work () . Wood Work ()	
FLEVATION TOOL SALVOYS	
(B) Explain in detail with neat sketch which types of precaution we should take (m	
vertical layout during the earthquake as 1 -: gif nitect.	
END OF PAPER	

Page 2 of 2