Seat		
No.		

S.E. (Second Semester) (Civil) EXAMINATION, 2014

BUILDING PLANNING

(2008 PATTERN)

Time: Four Hours

Maximum Marks: 100

- **N.B.** :— (i) All questions are compulsory.
 - (ii) Answers to the two sections should be written in separate answer-books.
 - (iii) Draw neat sketches wherever necessary.
 - (iv) Section two should be drawn on drawing sheet only.
 - (v) Figures to the right indicate full marks.
 - (vi) There will be no internal option for questions in section II.
 - (vii) Assume suitable data if necessary.

SECTION I

1. (a) Explain the requirements of Residential and Industrial zones need to be adopted during land zoning. [6]

		the stages involved in preparation of DP. [5	5]
	(c)	Write a note on 7/12 Abstract. [5	[i]
		Or	
2.	(a)	List out the principles of architectural planning and explain	n
		Mass Composition with sketch [5	5]
	(<i>b</i>)	Write a note on Submission drawings and Workin	g
		drawings.	5]
	(c)	Explain in detail concept and applications of Rain water	r
		harvesting (RWH).	3]
3.	(a)	Write a note on Built up area and Carpet area.	5]
	(<i>b</i>)	Explain with sketch Natural ventilation due to Wind effect an	d
		Stack effect.	5]
	(c)	Define Daylight factor and explain with sketch components of	of
		it. [6	6]

List out the objectives of Development Plan (DP) and highlight

(b)

4.	(a)	Explain the concept of Transfer of Development Right	S
		(TDR).	5]
	(b)	Explain with sketch Building Line and Control Line. Mentio	n
		the distances for the same for various types of roads.	3]
	(c)	Write a note on Summer and Winter Air Conditioning.	5]
5.	(a)	Explain with sketch Double wall construction and Cavity wa	11
		construction.	6]
	(<i>b</i>)	Write a note on Fire load.	6]
	(c)	Explain in brief Electrical and telecommunication services	in
		multistoried building.	6]
		Or	
6.	(a)	Explain the terms involved in water supply and drainage layo	ut
		of residential bungalow. (Draw supportive sketch).	[6]
	(b)	Write a note on "Reverberation".	[6]
	(c)	Write a note on "Vertical circulation" in a building.	[6]
	*	3 P.T.	Ο.

SECTION II

7. Plan a residential building G+1 framed structure with the following requirements. Calculate the total built-up area and give schedule of openings. The ext. wall tk. is 230 mm and int. wall tk. is 150 mm.

Indicate N-line. [20]

	Type of unit	No. of units	Internal area of
			unit in sq. m.
1	Living room	1	18
2	Bed room	2	12
3	Additional bed room	, *	
	with attached toilet	. 1	16
4	Kitchen	1	12
5	W.C.	1	1.5
6	Bath	1	2.8
7	Staircase	1	Use suitable dimensions

- 8. It is proposed to construct a post office with the following data:
 - (a) Entrance-cum-waiting space = 50 sq.m

(*b*) Public dealing counter (six in numbers) = total 30 sq.m. (c) Working space for other staff = 35 sq.m. (d)Post separation room = 30 sq.m. (e) Post master office = 15 sq.m. (*f*) Store room = 15 sq.m.(g) Meeting room = 20 sq.m. (*h*) Sanitary units: as per standards (i)All passages = 2000 mm wide Assume any additional suitable data if necessary and mention (j)it clearly with justification. Draw a scale 1: 100 or suitable line plan showing location (i)

9. Draw to scale of 1: 100 or suitable a two point perspective view of the steps shown in figure. [12]

Show line sketches of furniture arrangement.

(a) Eye level at 1500 mm above ground level.

of doors and windows.

(b) All dimensions are in mm.

(ii)

[15]

[3]

- (c) Station point 5000 mm away from picture plane vertically below the corner of the steps touching the picture plane.
- (d) Retain all construction lines.

