Code No.: 13114

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD B.E. (Civil Engg.: CBCS) III-Semester Main Examinations, December-2018

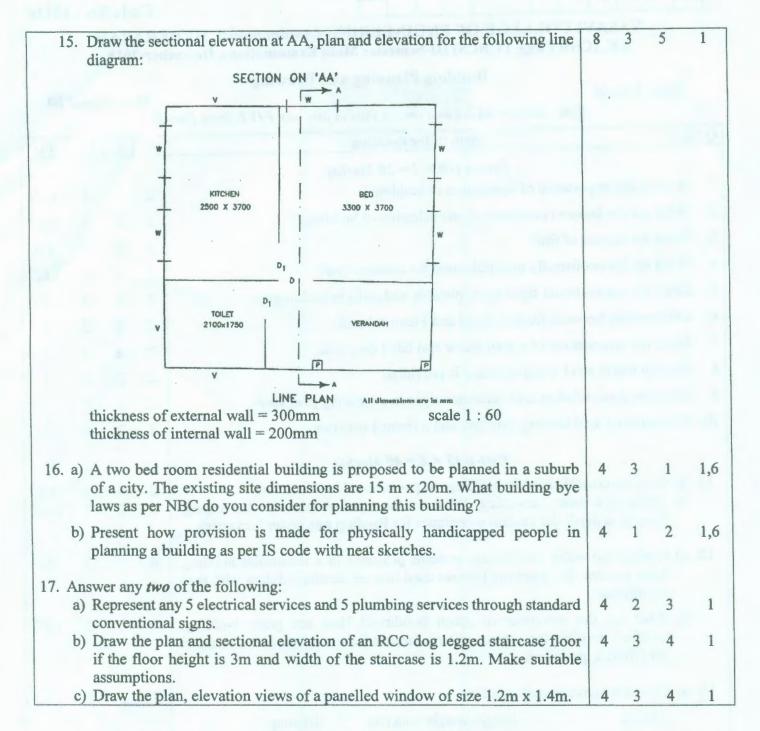
Building Planning and Drawing

Time: 3 hours

Max. Marks: 60

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Q.N	Stem of the question	M	L	CO	PO
	Part-A $(10 \times 2 = 20 \text{ Marks})$				
1.	What is the importance of orientation of building?	2	1	1	1,6,7
2.	What are the factors considered in site selection of buildings?	2	2	1	1,6,7
3.	What are classes of fire?	2	1	2	1,6
4.	What are the ecofriendly materials used for construction?	2	1	2	1,6,7
5.	Draw the conventional signs for cupboards and grills in building.	2	1	3	1
6.	Differentiate between English bond and Flemish bond	2	2	3	1
7.	Draw the components of a door frame and label the parts.	2	2	4	1
8.	Explain where steel spiral staircase is provided.	2	2	4	1
9.	Draw the door, window and ventilator signs in a building plan view.	2	1	5	1
10.	Distinguish a load bearing structure and a framed structure.	2	2	5	1
	Part-B $(5 \times 8 = 40 \text{ Marks})$				
11. a) Give the classification of buildings as per national building code?			4	1	1,6
	b) Define rain water harvesting. What are the types of rainwater harvesting? Present in detail the various techniques for Rooftop rain water harvesting.	6	2	1	1,6,
12	a) Explain the water distribution systems provided in a residential building. Also, present the plumbing fixtures used in a residential building with their significance.	4	2	2	1,6
	b) What are the principles of green buildings? How are green buildings certified? Explain the various criteria for certification of green buildings as per GRIHA guidelines.	4	2	2	1,6,
13	a) Draw the conventional sign for	3	3	3	1
	i) Brick ii)light weight concrete iii)pump				
	iv) Manhole v) Earthing point vi) ceiling fan				
	vii) King closer viii) timber.				
	b) Draw an isometric view of wall junction for a one and a half brick wall in Flemish bond showing atleast 4 courses.	5	3	3	1
1	4. a) Draw the section and elevation of standard glazed doors.	5	2	4	1
	b) Draw the plan view for open navel stair cases.	3	2	4	1



M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	60%
2	Knowledge on application and analysis (Level-3 & 4)	40%
3	*Critical thinking and ability to design (Level-5 & 6) (*wherever applicable)	