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Enrollment No.....



Faculty of Engineering
End Sem (Odd) Examination Dec-2019
CE3CO04 Building Planning and Drawing

Programme: B.Tech.

Branch/Specialisation: CE

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. A Stair turning through one right angle is known as a _____ stair. 1
(a) Quarter- turn (b) Half-turn
(c) Dog-legged (d) Open navel
- ii. What is the type of door in the exam hall? 1
(a) Sash door (b) Panelled door
(c) Braced door (d) Flush door
- iii. The type of Buildings used for medical purpose or other treatments is 1
(a) Institutional Building (b) Educational Buildings
(c) Assembly Buildings (d) Mercantile Buildings
- iv. According to standard building practices, a bedroom can be placed 1
in which of the following directions:
(a) SE (b) E (c) NW (d) W
- v. Fittings used to give necessary 90 degree turn to pipe line. 1
(a) Bends (b) Elbows (c) Sockets (d) None of these
- vi. The large size pipe carrying wholesome water for drinking and other 1
uses for particular locality of the city is known as
(a) Mains (b) Consumer pipe
(c) communication pipe (d) None of these
- vii. The imaginary vertical plane between the observer and the object on 1
which the perspective is obtained is known as
(a) Ground plane (b) Picture plane
(c) Horizon line (d) Station point

P.T.O.

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- viii. A point where the perspective of all straight lines appears to terminate except those parallel to the picture plane is called **1**
 (a) Station point (b) Ground point
 (c) Vanishing point (d) None of these
- ix. Which of them of the following is not a Principle of town planning? **1**
 (a) Green belt (b) Zoning (c) Housing (d) Roominess
- x. The General plan for future layout of a city is called as **1**
 (a) Master plan (b) City plan
 (c) Zone plan (d) Local plan

- Q.2 Attempt any two:
- i. What is foundation? Describe various types of foundation with neat sketch. **5**
- ii. Write different types of Staircases with their neat sketches. **5**
- iii. Describe the various types doors with neat sketch. **5**

- Q.3 i. List out the various aspects of building activities covered by the building bye-laws. **4**
- ii. Describe the classification of building as per NBC. **6**
- OR iii. Explain the various principles of planning. **6**

- Q.4 Attempt any two:
- i. Explain the purpose of ventilation. Also describe the factors affecting ventilation. **5**
- ii. Explain the following terms with their symbols: **5**
 (a) Wash basins (b) Bath tubs
 (c) Sinks (d) Urinals
 (e) Water closets.
- iii. What are the principles of house drainage? Explain them. **5**

- Q.5 i. Define the following term: **4**
 (a) Station point (b) Centre of vision
- ii. Draw the parallel perspective with reference to plan and elevation of simple object, cube. **6**

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- OR iii. What do you understand by site plans? Also write down the information shown on site plan. **6**

- Q.6 Attempt any two:
- i. Explain in detail about urban growth model with neat sketches. **5**
- ii. Discuss about the sustainable planning **5**
- iii. Describe town planning legislations and municipal acts. **5**

Marking Scheme
CE3CO04 Building Planning and Drawing

Q.1	i.	A Stair turning through one right angle is known as a _____ stair.	1
		(a) Quarter- turn	
	ii.	What is the type of door in the exam hall?	1
		(d) Flush door	
	iii.	The type of Buildings used for medical purpose or other treatments is	1
		(a) Institutional Building	
	iv.	According to standard building practices, a bedroom can be placed in which of the following directions:	1
		(d) W	
	v.	Fittings used to give necessary 90 degree turn to pipe line.	1
		(b) Elbows	
Q.2	vi.	The large size pipe carrying wholesome water for drinking and other uses for particular locality of the city is known as	1
		(a) Mains	
	vii.	The imaginary vertical plane between the observer and the object on which the perspective is obtained is known as	1
		(b) Picture plane	
	viii.	A point where the perspective of all straight lines appears to terminate except those parallel to the picture plane is called	1
		(c) Vanishing point	
	ix.	Which of them of the following is not a Principle of town planning?	1
		(d) Roominess	
	x.	The General plan for future layout of a city is called as	1
		(a) Master plan	
Q.2		Attempt any two:	
	i.	Definition of foundation	5
		Types of foundation with sketch	
		1 mark for each type (1 mark * 4)	5
	ii.	Types of Staircases with their sketches	5
		At least five 1 mark for each type	5
Q.2	iii.	Types doors with sketch	5
		At least five 1 mark for each type	5

Q.3	i.	Aspects of building activities covered by the building bye-laws.	4
		At least four aspects 1 mark for each	4
	ii.	Classification of building as per NBC.	6
OR		1 mark for each classification	6
	iii.	Principles of planning.	6
		1 mark for each principles	6
Q.4		Attempt any two:	
	i.	At least five purpose of ventilation	5
		0.5 mark for each purpose (0.5 mark * 5)	5
		At least five factors affecting ventilation.	5
		0.5 mark for each purpose (0.5 mark * 5)	5
	ii.	Explain the following terms with their symbols:	5
Q.5		1 mark for each	5
	iii.	At least ten Principles of house drainage	5
		0.5 mark for each principle	5
OR	i.	Define the following term:	4
		(a) Station point	4
		(b) Centre of vision	4
	ii.	Drawing of plan	6
		Drawing of elevation	6
		Perpective drawing of cube.	6
Q.6	iii.	Explanation of site plans	6
		Each information shown on site plan.	6
		0.5 mark for each information (0.5 mark * 8)	6
Q.6		Attempt any two:	
	i.	Urban growth model with sketches.	5
	ii.	Sustainable planning	5
	iii.	Town planning legislations	5
Q.6		Municipal acts	5
			5
