Examination 2020

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: BE Civil Engineering
Curriculum Scheme: Rev 2019
Examination: SE Semester III
Course Code: CE C 304 and Course Name: Architectural Planning & Design of Building

Time: 2 hour   Max. Marks: 80

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	The IS Code used as a practice for architectural and building drawing is _____
Option A:	IS 969: 1987
Option B:	IS 962:2000
Option C:	IS 962: 1989
Option D:	IS 962 : 1986
2.	Which of the following statements are wrong- i) As infrastructure increases, FSI increases ii) As population increases, FSI increases iii) If FSI increases, then only Infrastructure increases. iv) Current population is not taken into consideration for FSI calculation
Option A:	Only (iv)
Option B:	(i) and (iii)
Option C:	(i) and (ii)
Option D:	(iii) and (iv)
3.	What is the RF of 5 cm= 1 m?
Option A:	1/20
Option B:	1/200
Option C:	1/250
Option D:	½
4.	Proper placement of components of building with respect to sun, wind and rain which enables the inmates to enjoy desirable features of the nature is called ----------------
Option A:	Aspect
Option B:	Orientation
Option C:	Prospect
Option D:	Grouping
5.	Kitchen should have _____ aspect
Option A:	NW
Option B:	SW
Option C:	NE
Option D:	SE

6.	A single point on the horizon where, the lines parallel to each other but not parallel to the PP (horizontal lines) converge towards it, is termed as _____
Option A:	Station Point
Option B:	Titling Point
Option C:	Visual Point
Option D:	Vanishing Point
7.	The observers eye position in perspective drawing is actually a_____
Option A:	Center of Vision
Option B:	Station Point
Option C:	Visual Rays
Option D:	Picture Plane
8.	Which of the following statement is/are correct? i) In Isometric, Dimetric, and Trimetric drawings, the lines remain parallel and never converge at a single point. ii) In perspective drawing, view remains constant irrespective of station point. Perspective is a geometric method of representing on paper the way that objects appear in real life
Option A:	Only (i)
Option B:	Both (i) and (ii)
Option C:	(i)and (iii)
Option D:	(ii) and (iii)
9.	In 1966, which of the following act/law came into existence for comprehensive regional planning to develop towns and their surroundings?
Option A:	Bombay town Planning act
Option B:	CIDCO
Option C:	MIDC
Option D:	Maharashtra Regional and Town Planning Act
10.	_____is the process of managing land resources. It involves the control of existing and new developments, as well as strategy preparation to ensure manage future requirements. It is a dynamic process that changes in response to policy, development proposals and local needs.
Option A:	Town Planning
Option B:	Resource Planning
Option C:	Built Environment
Option D:	Master Plan
11.	_____ means man-made environment, taking into consideration the relationship between ecology, environment, town/city, building and man.
Option A:	Ecological Development
Option B:	Redevelopment Plan
Option C:	Built Environment
Option D:	Master Plan
12.	An open strip of land provided on the periphery of a town for the special purpose of limiting the growth of a town where construction of building is strictly

	prohibited is known as the _____
Option A:	Restricted Zone
Option B:	Set Back Zone
Option C:	Prohibited Zone
Option D:	Green Belt
13.	Residential Zones in any Urban/Town planning generally comprises of_____
Option A:	20- 30 %
Option B:	40-50 %
Option C:	15-35 %
Option D:	2-5 %
14.	_____means setting different rooms of a building according to their inter-relationship of invitation and transition and of their functions
Option A:	Grouping
Option B:	Aspect
Option C:	Elegance
Option D:	Prospect
15.	Minimum open space required around any building or structure prescribed by the municipal authority is termed as_____
Option A:	Carpet area
Option B:	Ground Coverage
Option C:	Set Back distances
Option D:	FSI
16.	Which of the following areas are considered in calculation of super built up area_____ i) Gardens ii) Club house iii) Covered Parking iv) Lift Lobby
Option A:	(i) and (ii) are correct
Option B:	(ii), (iii) and (iv) are correct
Option C:	(iii) and (iv) only
Option D:	(i), (ii) and (iii) are correct
17.	As per Bye- Laws, Living room, bedroom should have minimum area of _____
Option A:	11 sq. m
Option B:	12 sq. m
Option C:	7 sq. m
Option D:	9 sq. m
18.	Minimum Width of staircase for a single floor residential house is _____
Option A:	0.9 m
Option B:	1.2 m
Option C:	1.8 m
Option D:	1.5 m
19.	The height which is raised to some elevation above the ground and provides ground floor is actually a _____
Option A:	Lintel Height

Option B:	Elegance
Option C:	Door Height
Option D:	Plinth Height
20.	For any load bearing structure, generally wall thickness should be equal to or greater than_____
Option A:	300 mm
Option B:	230 mm
Option C:	360 mm
Option D:	250 mm

Q2	Solve any one Questions out of two 20 marks each
A	It is proposed to construct a Residential Bungalow as (G+1) R.C.C framed structure on a plot of 40 m.X45 m. with Floor-Floor height of 3.3 m. Following are the requirements: (i) Living Room = 22 Sq.m. (ii) Drawing Room = 20 Sq.m. (iii) Master's Bed Room (with A.T) = 20 Sq.m. (iv) Kitchen = 12 Sq.m. (v) Dining = 16 Sq.m. (vi) Bed Room = 16 Sq.m. (vii) Guest Room = 14 Sq.m. (viii) Pooja Room = 12 Sq.m. Provide Toilets, passages etc. as per the Bye-laws. Draw the following with a suitable scale: Ground Floor Plan (double line plan)- 15 Marks First Floor Plan (single line plan) - 5 marks
B	Plan, Design and draw a HOTEL(Lodging &Boarding) building in a City with the following facilities as (G+1) R.C.C framed structure .(Floor-Floor height = 3.6 m.). (i) Single-Bed Rooms = 6 no.(each 15 Sq.m. with A.T) (ii) Double-Bed Rooms = 6 no.(each 20 Sq.m. with A.T) (iii) Entrance & Reception = 40 Sq.m. (iv) KITCHEN = 60 Sq.m. (v) DINING = 100 Sq.m. (vi) LAUNDRY = 30 Sq.m. (vii) HEALTH CLUB = 60 Sq.m. Provide Toilets, passages etc. as per the Bye-laws. Draw the following with a suitable scale: (a) GROUND FLOOR PLAN- 15 Marks (b) LINE PLAN OF FIRST FLOOR- 05 marks

Q3	Answer the following 20 marks
A	Write short notes on- (Solve any Two) 5 marks each
i.	Green Building
ii.	Types of foundations for Residential & Public Buildings
iii.	Use of computers in planning and designing of Buildings
iv.	Zoning

B	Solve any One	10 marks each
i.	Draw two point perspective with the following data: Size of dining hall = 35 m X 15 m with attached pantry, wash area. Plinth height = 0.6 m Floor to floor height= 4.1 m Assume eye level at 2.5 m from ground level	
ii.	Draw two point perspective for following 1 BHK house. Drawing hall- 20 m2 Kitchen cum dining- 15 m2 Bed room- 13 m2 WC bath- 2.5 m2 Assume the suitable data	