		Reg. No. :												
Question Paper Code: 98164														
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024														
One credit														
Civil Engineering														
21UCE861 - GREEN BUILDING CONCEPTS														
(Regulations 2021)														
(Common to All Branches)														
Dur	ation: 1.30 minutes								N	Maxi	mun	n: 50	Mar	ks
		Answe	r AL	LL Q	uesti	ons								
PART A - $(10 \text{ x } 1 = 10 \text{ Marks})$														
1.	Which of the following	ng is a disadvantag	ge of	gree	en bu	uildir	ng?						CO	01-U
	(a) Increases 15-20% cost as compared to normal building													
	(b) Modern techniques are required													
	(c) Experts technicians are required													
	(d) All of the above													
2.	For a gold LEED certification, how many points are required? CO1-U								1 <b>-</b> U					
	(a) 40-49	(b) 60-79	(c) 5	0-59	1					d) 80	0-11	0		
3.	What rating did the government building		dia n	nake	man	idato	ry fo	or					CO	91 <b>-</b> U
	(a) GRIHA - 2 Star	(b) GRIHA – 3 S	Star	(0	c) Go	old				(d) I	Platir	num		
4.	Which of the following rating systems are currently working in India?							CO	1-U					
	(a) LEED	(b) GRIHA		(0	c) Bo	oth A	& E	3		(d) 1	None	oftl	he ab	ove
5.	Full Name of TERI												CO	1-U
	(a) The Energy & resources Institute (b) The Energy & rating Institute													
	(c) The Energy & resources India (d) The Energy & Research Institute													
6.	How many set of criteria formulated by GRIHA for Rating the building?CO1-U													
	(a) 34	(b) 33			(c) 3	32				(d)	31			

7.	The	expansion of ECBC is	CO1-U						
	(a) Energy Consumption Building Code								
	(b) Energy Conservation Building Code								
	(c) Energy Conservation Building Committee								
	(d) Energy Consumption Building Committee								
8.	is best suited to extinguishing oil or flammable liquid fire.								
	(a) Soda acid (b) Vaporizing liquid (c) Foam (d) Dry chemi								
9.	How many points are Minimum to earn in order to Achieve LEED Certifications								
	(a) 3	5 (b) 40 (c) 55 (d)	45						
10.	India's first green building located on								
	(a) ITC Green Centre, Gurgaon (b) CII–Sohrabji Green Business Centre, Hyd								
(c) Wipro Technologies, Gurgaon (d) Suzlon one Earth, Pune									
PART - B (5 x 2= 10 Marks)									
11.	Define the term greenhouse effect.								
12.	Discuss SHGC								
13.	Explain Concentrating solar power (CSP)								
14.	Define U-value or What is Heat Transfer co-efficient?								
15.	Define global warming.								
		PART – C (2 x 15= 30 Marks)							
16.	(a)	Briefly explain the green buildings and materials used in green buildings.	CO1-U	(15)					
	(h)	Or Briefly explain the green building roofing concept and its uses.	CO1-U	(15)					
	(b)	Brieny explain the green building fooring concept and its uses.	01-0	(15)					
17.	(a) Briefly explain the waste disposal management and its types. CO1- Or								
	(b)	Explain in detail about the green buildings in different climatic regions.	CO1-U	(15)					