		Reg. No.:											
Question Paper Code: U8461													
B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024													
One credit													
Civil Engineering													
21UCE861 - GREEN BUILDING CONCEPTS													
(Regulations 2021)													
		(Commo	on to A	ALL Br	anche	es)							
Du	ration: 1.30 Hours							1	Maxi	mun	n: 50	Mar	ks
		Answ	er AL	L Ques	stions								
		PART A	- (10	x 1 = 1	0 Mar	ks)							
1.	Which of the following	ng is a disadvanta	age of	green	buildi	ng?						CO	1 <b>-</b> 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.	When GRIHA was 1	aunched in India	?									CO	1 <b>-</b> U
	(a) 2001	(b) 2008	(c) 20	010					(d) 2	2011			
3.	What rating did the G government building		dia ma	ıke maı	ndator	ry for						CO	1 <b>-</b> U
	(a) GRIHA - 2 Star	(b) GRIHA – 3	Star	(c) (	Gold				(d) I	Platir	num		
4.	Which of the follow	ving rating system	ns are	curren	tly wo	orking	in I	ndia	1?			CO	1 <b>-</b> U
	(a) LEED	(b) GRIHA		(c)	Both (	(a) &	(b)		(d) 1	None	of tl	he ab	ove
5.	Full Name of TERI											CO	1 <b>-</b> U
	(a) The Energy & resources Institute (b) The Energy & r						ratir	ng In	stitut	te			
	(c) The Energy & resources India (d) The Energy & Research Institute												
6.	How many set of cr	How many set of criteria formulated by GRIHA for Rating the building? CO1-U											
	(a) 34	(b) 33		(c)	32				(d)	31			

7.	The expansion of ECBC is							
	(a) E	Energy Consumption Building Code						
	(b) E	Energy Conservation Building Code						
	(c) Energy Conservation Building Committee							
	(d) E	Energy Consumption Building Committee						
8.	Wh	Which rating star is given by GRIHA for points between 71-80?						
	(a) 5	(b) 4 (c) 3	(d) 2					
9.		w many points are Minimum to earn in order to Achieve I tifications	CO1- U					
	(a) 3	5 (b) 40 (c) 55	(d) 45					
10.	GR	IHA Means		CO2- U				
	(a) C	Green rating for Indian Habital assessment						
(b) Green rating for Integrated Habital assessment								
(c) Green rapid for International Habital assessment								
	(d) (	Green rating for International Habital assessment						
		$PART - B (5 \times 2 = 10 \text{ Marks})$						
11.	. Define U-value or What is Heat Transfer co-efficient?							
12.	. Define global warming.							
13.	. List some of the effects of global warming.							
14.	. What is PMV?							
15.	Defi	ne Biomass.		CO1-U				
		$PART - C (2 \times 15 = 30 \text{ Marks})$						
16.	(a)	Implemented the environmental implications of green eduildings.	energy in CO2-Ap	(15)				
	(b)	Or Executing the remedial measures that are to be taker effects of global warming.	n for the CO2-Ap	(15)				
17.	(a)	Explain in detail about the green buildings in different regions.	climatic CO1-U	(15)				
	(b)	Or Briefly explain the green buildings and materials used buildings.	in green CO1-U	(15)				