

MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

Dept. of Civil Engineering

1st Internal Assessment

1st Sem

Sub. Name: Green Buildings (BETCK105B)

Schedule: 11/11/2023

9.30am- 11.00am

Total Marks: 30

Instructions to students

- 1. Answer ONE full question from each part
- 2. Assume any missing data suitably

Q. No.		Question Description	M	BTL	COs	
	PART A					
1,	a	Illustrate any 4 types of cost effective construction materials.		L3	1	
	b	Elaborate the manufacturing process of stabilized mud block used in cost effective construction.	8	L3	1	
2	a	Illustrate the environmental issues involved in any 3 building materials.	7	L3	1	
	b	Discuss the necessity of concrete recycling as a building material.	8	L3	1	

PART B						
3	a Illustrate the single Flemish bond method of cost effective building technologies with neat sketch.				2	
	b	Elaborate the components of arch with neat sketch.	7	L3	2	
4	a'	Enumerate the rat-trap bond cost effective building technologies with neat sketch.	8	L3	2	
	ъ	Illustrate the advantages and disadvantages of rat trap bond.	7	L3	2	

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MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

Dept. of Civil Engineering
Internal Assessment 2

1stSem.

Sub. Name: Green Buildings (BETCK105B)

Schedule: 09/12/2023

Time: 9.30am-10.45am

Total Marks:30

Instructions to students Answer one full question from each part.

Q#		Question Description		BTL	COs	
	PARTA					
1	a	Provide a comprehensive explanation of the Composite Beam and Panel Roof, specifically focusing on the Jack Arch Roof System, and explain its advantages.		L3	2	
	b	Provide a concise explanation of the concept of employing Filler Slab as an alternative roofing system.	7	L3	2	
2	a	Explore the advantages and disadvantages of using cavity wall construction.	8	L3	2,	
	b	Highlight how HABITAT contributes to environmental friendly and cost-effective building technologies.	7	L3	2	

PARTB						
3	2	Briefly describe how buildings contribute to the phenomenon of global	8	L3	3	
	b	Illustrate in detail the causes and effects of global warming.	7	L3	3	
4	a	Illustrate the Embodied Energy system in Building Materials.	8	L2	3	
	b	Discuss the concept of life cycle cost of the building.	7	L3	3	

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MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE Dept. of Civil Engineering 3rd Internal Assessment

1st Scm.

Sub. Name: Green Buildings (BETCK105B) Schedule: 10/01/2024 and 9.30 am -10.45 am Total Marks: 30

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. 0	2#	Question Description	M	BTL	COs		
	PARTA						
1	а	Enumerate the basic features and certification levels of GRIHA	8	L3	2		
	b	Enumerate briefly the integrated lifecycle design of materials and construction with the help of flow chart.		L3	2		
2	a	Enumerate the Principles of Sustainable development in building design.	in building 8 L2		2		
	b	Enumerate LEED and IGBC Certification Systems.	7	L3	2		
Γ	PART B						
3	a	Illustrate the advantages and disadvantages of solar powered building concepts.	8	L3	_ 3		
-	ь	Enumerate the various ways of solid waste management.		L3	3		
P	3	Paraphrase Water utilization in green buildings.	8	L2	- 3		
4	Þ	Enumerate passive solar design basics for heating and cooling of building.	7	L3	3		