



# MAKE-UP EXAM

BETCK205B/ BETCKB205

Second Semester B.E./B.Tech. Degree Examination, Nov./Dec. 2023

## Green Buildings

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	Name the different types of construction materials and explain any two of them.	10	L2	CO1
	b.	List the types of burnt bricks and explain them in detail.	10	L2	CO1
OR					
Q.2	a.	Discuss the environmental issues related to quarrying of building materials.	10	L2	CO1
	b.	Discuss the technical aspects of Bamboo as construction materials.	10	L2	CO1
Module – 2					
Q.3	a.	Explain in detail the rat trap bond with the help of neat sketch.	10	L2	CO2
	b.	Discuss the various aspects of ferro cement construction.	10	L2	CO2
OR					
Q.4	a.	List and explain the different types of door and window frames.	10	L2	CO2
	b.	Discuss the advantages of using pre cast elements for walls and roofs.	10	L2	CO2
Module – 3					
Q.5	a.	Discuss the contribution of buildings towards Global warming.	10	L2	CO3
	b.	Explain the global efforts to reduce Carbon emission.	10	L2	CO3
OR					
Q.6	a.	Describe in detail about embodied energy in materials.	10	L2	CO3
	b.	Explain the health and social benefits of green building.	10	L2	CO3
Module – 4					
Q.7		Write a short notes on : i) BREEAM ii) LEED iii) GREEN STAR iv) GRIHA	20	L2	CO4
OR					
Q.8	a.	Explain the principles of sustainable development in building design.	10	L2	CO4
	b.	Discuss the concepts of integrated life cycle design of materials and structure.	10	L2	CO4

Module – 5					
Q.9	a.	Mention and explain the various utilities of solar energy in building.	10	L2	CO5
	b.	Discuss a case study of solar passive cooled and heated buildings.	10	L2	CO5
OR					
Q.10	a.	Explain the concepts of green composites.	10	L2	CO1
	b.	Discuss in detail the solid waste management in building.	10	L2	CO5

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