

CBCS SCHEME

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BETCK205B

Second Semester B.E./B.Tech. Degree Examination, June/July 2025 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.	List and explain different types of cost effective building materials.	10	L2	CO1
	b.	Explain the various environmental issues caused due to quarrying of buildings materials.	10	L2	CO1
OR					
Q.2	a.	Differentiate between burnt red brick and concrete block as masonry materials.	10	L2	CO1
	b.	Write short notes on recycling of brick as a building material.	10	L2	CO1
Module – 2					
Q.3	a.	With a neat sketch explain Flemish bond in walls.	10	L2	CO2
	b.	Explain the construction method involved in rat trap bond with neat sketch.	10	L2	CO2
OR					
Q.4	a.	Briefly explain the contribution of Nirmithi Kendra for cost effective technology development.	10	L2	CO2
	b.	Write a short note on alternative roofing system.	10	L2	CO2
Module – 3					
Q.5	a.	Mention the causes and effects of Global Warming.	10	L2	CO3
	b.	What are the global efforts to reduce carbon emission through green buildings?	10	L2	CO3
OR					
Q.6	a.	How buildings are contributing towards Global Warming.	10	L2	CO3
	b.	Differentiate between Green buildings and conventional buildings.	10	L2	CO3
Module – 4					
Q.7	a.	Explain the criteria for a building rated as per GRIHA.	10	L2	CO4
	b.	Explain the characteristics of sustainable building in Green building design.	10	L2	CO4
OR					
Q.8	a.	Briefly explain the LEED assessment category.	10	L2	CO4
	b.	Briefly explain BREEAM rating system along with its benefits.	10	L2	CO4
Module – 5					
Q.9	a.	Explain the concept of solar passive heating in buildings.	10	L2	CO5
	b.	Briefly describe the concepts of green composites.	10	L2	CO5
OR					
Q.10	a.	Describe the process of management of solid waste.	10	L2	CO5
	b.	Write a short note on management of sewage water.	10	L2	CO5
