

CBCS SCHEME

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BETCK105B/BETCKB105

**First Semester B.E./B.Tech. Degree Supplementary Examination,
June/July 2024
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.	Explain any types of cost effective construction materials with their advantages.	10	L2	CO1
	b.	Write a short note on laterite stone/block.	10	L2	CO1
OR					
Q.2	a.	Write a short note on recycling of concrete as a building material.	10	L2	CO1
	b.	Explain Fiber reinforced polymer composites stating its applications.	10	L2	CO1
Module – 2					
Q.3	a.	Explain the construction method involved in rat trap bond with neat sketch.	10	L2	CO2
	b.	Write a short note on alternate roofing system, filler slab and ferrocement.	10	L2	CO2
OR					
Q.4	a.	Mention the advantages and disadvantages of pre-engineered building.	10	L2	CO2
	b.	Explain the objective of Nirmithi Kendra briefly.	10	L2	CO2
Module – 3					
Q.5	a.	Differentiate between conventional building and green building.	10	L2	CO3
	b.	How buildings are contributing towards Global Warming?	10	L2	CO3
OR					
Q.6	a.	Mention the causes and effects of global warming.	10	L2	CO3
	b.	Write a note on different features of green building.	10	L2	CO3
Module – 4					
Q.7	a.	Write a note on different characteristics of sustainable buildings.	10	L2	CO4
	b.	Explain the criteria for a building rated as per GRIHA.	10	L2	CO4
OR					
Q.8	a.	List the objectives of Life Cycle design of materials and constructions.	10	L2	CO4
	b.	Explain BREEAM rating system along with its benefits.	10	L2	CO4
Module – 5					
Q.9	a.	Explain passive solar design basics for heating and cooling of building.	10	L2	CO1
	b.	Describe the management of solid wastes.	10	L2	CO1
OR					
Q.10	a.	Explain the concept of Green Cover and Build Environment.	10	L2	CO1
	b.	Explain water utilization in Green Building.	10	L2	CO1
