

CBCS SCHEME

BETCK205B



Second Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Green Buildings

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 types of cost effective construction material with their advantages.	10	L2	CO1
	b.	Explain the need for reuse and recycle of building materials along with its benefits.	10	L2	CO1
OR					
Q.2	a.	Explain the various environmental issues causal due to quarrying of building materials.	10	L2	CO1
	b.	Define fiber reinforced polymer composites. Mention its advantages and applications.	10	L1	CO1
Module - 2					
Q.3	a.	Mention the advantages and disadvantages of pre-engineered buildings.	10	L1	CO2
	b.	Explain the construction method involved in rat trap bond with neat sketch.	10	L2	CO2
OR					
Q.4	a.	Explain Filler Slab and ferrocement based alternative roofing systems.	10	L2	CO2
	b.	Explain the objectives of Nirmithi Kendra briefly.	10	L2	CO2
Module - 3					
Q.5	a.	Explain the five means of reducing carbon emissions.	10	L2	CO3
	b.	Describe the causes and effects of global warming.	10	L2	CO3
OR					
Q.6	a.	Explain the environmental benefits of Green Buildings.	10	L2	CO3
	b.	Differentiate between Conventional Building and Green Buildings.	10	L2	CO3
Module - 4					
Q.7	a.	Briefly explain the BREEAM assessment category.	10	L2	CO4
	b.	Explain the features and benefits of GRIHA.	10	L2	CO4

OR

Q.8	a.	Explain different characteristics of sustainable buildings.	10	L2	CO4
	b.	Describe objectives of green building design.	10	L2	CO4
Module – 5					
Q.9	a.	Explain passive solar design basics for heating and cooling of buildings.	10	L2	CO5
	b.	Explain the advantages and disadvantages of solar powered building concepts.	10	L2	CO5
OR					
Q.10	a.	Explain the process of management of solid waste.	10	L2	CO5
	b.	Explain the concept of green cover and build environment.	10	L2	CO5
