

# CBCS SCHEME

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BETCK205B/ BETCKB205

## Second 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 briefly the manufacturing process of burnt bricks.	10	L2	CO1
	b.	List the advantages of using following in construction : i) Stabilized mud block ii) Bricks.	10	L2	CO1
OR					
Q.2	a.	Explain the environmental issues related to quarrying of building materials.	10	L2	CO1
	b.	List the advantages of using following materials in construction. i) Concrete blocks ii) Bamboo.	10	L2	CO1
Module – 2					
Q.3	a.	Explain briefly any two types of precast members used in building construction.	10	L2	CO2
	b.	Explain the following in construction of building. i) Cavity wall ii) Ferro cement.	10	L2	CO2
OR					
Q.4	a.	What are the objectives of Nirmithi Kendra and COSTFORD? Explain their contributions to the society.	10	L2	CO2
	b.	Explain the following in construction of building : i) Filler slab technology ii) Rat –trap – bond.	10	L2	CO2
Module – 3					
Q.5	a.	Explain the causes and effects of global warming.	10	L2	CO3
	b.	Define carbon footprint. What are the global efforts to reduce carbon emission?	10	L2	CO3
OR					
Q.6	a.	Explain the following : i) Embodied energy in materials ii) Comparison between conventional building and green building.	10	L2	CO3
	b.	Describe the environmental, economical, health and social benefits of green building.	10	L2	CO3

## Module – 4

Q.7	a.	Explain the purpose and key highlights of following green rating systems : i) LEED ii) GRIHA.	10	L2	CO4
	b.	Write a note on : i) Characteristics of sustainable buildings ii) Green design.	10	L2	CO4

## OR

Q.8	a.	Explain the purpose and key highlights of following green rating systems. i) BREEAM ii) GREEN STAR.	10	L2	CO4
	b.	Write short notes on : i) Principles of sustainable development ii) Sustainably managed materials.	10	L2	CO4

## Module – 5

Q.9	a.	Describe the concepts of solar passive cooling and heating of building.	10	L3	CO5
	b.	Write a note on : i) Urban environment and green building ii) Zero energy building.	10	L2	CO5

## OR

Q.10	a.	Explain with help of one case study on solar passive cooled and heating building.	10	L3	CO5
	b.	Explain the management of following types of waste : i) Solid waste ii) Sewage waste.	10	L2	CO5

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