

CBCS SCHEME

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BETCK205B/BETCKB205

Second Semester B.E./B.Tech Degree 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 the manufacturing process of concrete block with proper advantages.	10	L2	CO1	
	b.	Discuss the environmental issues related to building material.	10	L2	CO1	
OR						
Q.2	a.	Discuss the properties and advantage of gypsum board.	10	L2	CO1	
	b.	Explain the necessary of recycling process of any two building materials.	10	L2	CO1	
Module – 2						
Q.3	a.	Explain the contribution of Nirmithi Kendra and Halrital towards environmental friendly and cost effective building technologies.	10	L2	CO2	
	b.	Explain the following with neat sketch. i) Rat – trap bond ii) Cavity walls.	10	L2	CO2	
OR						
Q.4	a.	Differentiate between Pre-engineered building and conventional building.	10	L3	CO2	
	b.	Explain Casting techniques and properties of Ferro cement along with its applications.	10	L3	CO2	
Module – 3						
Q.5	a.	Summarize the causes and effects of global warming. And also explain the contribution of buildings towards global warming.	10	L3	CO3	
	b.	What is green building? Explain the features and benefits of green buildings.	10	L2	CO3	
OR						
Q.6	a.	Explain the term Carbon foot print and also discuss the global efforts to reduce Carbon Emission.	10	L3	CO3	
	b.	Discuss the process of evaluating the economic performance of building over its entire life with flow chart.	10	L3	CO3	
Module – 4						
Q.7	a.	Explain the basic principle of sustainable development in building design and also mention the characteristic of sustainable buildings.	10	L3	CO4	
	b.	Explain the following : i) GRIHA ii) GREEN STAR.	10	L2	CO4	
OR						
Q.8	a.	List the various systems used for rating the green building in India and explain any one in detail.	10	L2	CO4	
	b.	Differentiate between LEED and BREEM rating systems of green building.	10	L2	CO4	
Module – 5						
Q.9	a.	Explain the methods of manufacturing and advantages of green composites.	10	L2	CO5	
	b.	Define municipal solid waste and discuss the types of solid waste management.	10	L2	CO5	
OR						
Q.i0	a.	Explain the following terms : i) Solar Air heaters ii) Low energy approach to water management.	10	L3	CO5	
	b.	Explain the sewage treatment methods with neat flow chart.	10	L3	CO5	
