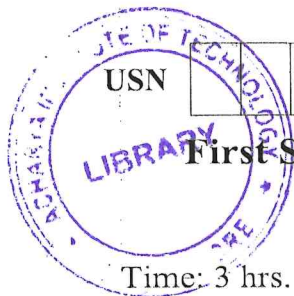


CBCS SCHEME



BETCK105B

First Semester B.E./B.Tech. Degree Examination, June/July 2026 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 criteria to select a good building stones.	10	L2	CO1
	b.	Explain the manufacturing process of concrete block with advantages.	10	L2	CO1
OR					
Q.2	a.	Discuss the environmental benefits of stone and laterite blocks.	10	L2	CO1
	b.	Explain the manufacturing process of Stabilized Mud Blocks (SMB) along with its advantages and disadvantages.	10	L2	CO1
Module – 2					
Q.3	a.	With neat sketch, explain cavity wall along with its advantages.	10	L2	CO2
	b.	Mention the advantages and disadvantages of pre-engineered buildings.	10	L2	CO2
OR					
Q.4	a.	Write a note on Nirmithi Kendra.	10	L2	CO2
	b.	Explain the properties of Ferro – Cement. What are the advantages and disadvantages of Ferro-Cement?	10	L2	CO2
Module – 3					
Q.5	a.	Mention the causes and effects of Global Warming.	10	L2	CO3
	b.	Define Carbon Foot Prints. Explain the global efforts to reduce the carbon emission.	10	L2	CO3

OR

Q.6	a.	Explain the environmental benefits of green building.	10	L2	CO3
	b.	How buildings are contributing towards global warming?	10	L2	CO3

Module – 4

Q.7	a.	Explain BREEAM Assessment Categories.	10	L2	CO4
	b.	Explain LEED Assessment Categories.	10	L2	CO4

OR

Q.8	a.	Write a note on Green Star.	10	L2	CO4
	b.	Explain the Criteria for a building rated as per GRIHA?	10	L2	CO4

Module – 5

Q.9	a.	List and explain the elements of passive solar design in a building.	10	L2	CO5
	b.	Define Green Composites. Explain the methods of manufacturing composites	10	L2	CO5

OR

Q.10	a.	List and explain the methods of reducing water usage in buildings.	10	L2	CO5
	b.	List and explain the methods of Solid Waste Management.	10	L2	CO5

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