

CBGS SCHEME

USN

4 H G D I C V O D 6

BETCK105B / BETCKB105

First Semester B.E./B.Tech. Degree Examination, Jan./Feb. 2023

Green Buildings

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. ITU Formula Hand Book is permitted.
3. M: Marks, L: Bloom's level, C: Course outcomes.

Module - 1		M	L	C
Q.1	a. Explain any types of cost effective construction material with their advantages.	10	L2	CO1
	b. Explain the various environmental issues causal due to quarrying of building materials.	10	L2	CO1
OR				
Q.2	a. Explain fiber reinforced polymer composites stating its advantage and applications.	12	L2	CO1
	b. Explain the need for reuse and recycle of building materials along with its benefits.	8	L2	CO1
Module - 2				
Q.3	a. Explain the construction method involved in rat trap bond with neat sketch.	10	L2	CO2
	b. State the different types of wall panels and explain any two.	10	L2	CO2
OR				
Q.4	a. Explain the ferrocement construction process and list the different ferrocement products.	10	L2	CO2
	b. Explain the objective of Nirmithi Kendra briefly.	10	L2	CO2
Module - 3				
Q.5	a. Write a note on causes and effects of global warming.	10	L2	CO3
	b. Write a note on different features of green buildings.	10	L2	CO3
OR				
Q.6	a. Explain the various means of reducing carbon emissions.	10	L2	CO3
	b. Differentiate between conventional building and green buildings.	10	L2	CO3
Module - 4				
Q.7	a. Explain the features and benefits of GRIHA.	10	L2	CO4
	b. Write a note on different characteristics of sustainable buildings.	10	L2	CO4

OR					
Q.8	a.	Explain BREEAM rating system along with its benefits.	10	L2	CO4
	b.	Write a note on objectives of green building design.	10	L2	CO4
Module – 5					
Q.9	a.	Explain the advantages and disadvantages of solar powered building concepts.	10	L2	CO5
	b.	Explain passive solar design basics for heating and cooling of buildings.	10	L2	CO5
OR					
Q.10	a.	Explain water utilization in green buildings.	10	L2	CO5
	b.	Describe the management of solid wastes.	10	L2	CO5

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