## CBCS SCHEME

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## BETCK105B/BETCKB105

First Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.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
a.	List and explain the uses of different types of cost effective Building Materials.	10	L2	CO1
b.	Write a short note on Bamboo as a building material.	10	L2	CO1
	OR			
a.	What are the environmental issues related to quarrying of building materials.	10	L2	CO1
b.	Write a short note on recycling of concrete as a building material.	10	L2	CO1
	Module – 2			
a.	Write a short note on cavity wall and Rat trap bond.	10	L2	CO2
b.	Mention the advantages and disadvantages of pre engineered buildings.	10	L2	CO2
	OR	ii.		
a.	Briefly explain the contribution of Nirmiti Kendra for cost effective technology development.	10	L2	CO2
b.	Write a short note on alternate roofing system → Filler slab and ferrocement.	10	L2	CO2
	Module – 3			
a. Mention the causes and effects of Global warming.			L2	CO3
b.	Explain the environmental benefits of Green Building.	10	L2	CO3
.6	OR			
a.	Mention the Benefits of energy efficient buildings.	10	L2	CO3
b.	How buildings are contributing towards Global warming?	10	L2	CO3
1	Module – 4	1		
a.	Briefly explain the BREEAM assessment category?	10	L2	CO4
b.	Explain the criteria for a building rated as per GRIHA?	10	L2	CO4
	1 of 2			
	a. b. a. b. a. b. a. a.	b. Write a short note on Bamboo as a building material.  OR  a. What are the environmental issues related to quarrying of building materials.  b. Write a short note on recycling of concrete as a building material.  Module − 2  a. Write a short note on cavity wall and Rat trap bond.  b. Mention the advantages and disadvantages of pre engineered buildings.  OR  a. Briefly explain the contribution of Nirmiti Kendra for cost effective technology development.  b. Write a short note on alternate roofing system → Filler slab and ferrocement.  Module − 3  a. Mention the causes and effects of Global warming.  b. Explain the environmental benefits of Green Building.  OR  a. Mention the Benefits of energy efficient buildings.  b. How buildings are contributing towards Global warming?  Module − 4  a. Briefly explain the BREEAM assessment category?	b. Write a short note on Bamboo as a building material.  OR  a. What are the environmental issues related to quarrying of building 10 materials.  b. Write a short note on recycling of concrete as a building material.  10  Module − 2  a. Write a short note on cavity wall and Rat trap bond.  DR  a. Briefly explain the contribution of Nirmiti Kendra for cost effective 10 technology development.  b. Write a short note on alternate roofing system → Filler slab and 10 ferrocement.  Module − 3  a. Mention the causes and effects of Global warming.  DR  a. Mention the environmental benefits of Green Building.  OR  a. Mention the Benefits of energy efficient buildings.  DR  Module − 4  a. Briefly explain the BREEAM assessment category?  10  b. Explain the criteria for a building rated as per GRIHA?	b. Write a short note on Bamboo as a building material.  OR  a. What are the environmental issues related to quarrying of building atterials.  b. Write a short note on recycling of concrete as a building material.  10 L2  Module − 2  a. Write a short note on cavity wall and Rat trap bond.  10 L2  DR  ABRIEFILY explain the contribution of Nirmiti Kendra for cost effective technology development.  DR  Briefly explain the contribution of Nirmiti Kendra for cost effective ferrocement.  Module − 3  a. Mention the causes and effects of Global warming.  DR  ABRIEFILY Explain the environmental benefits of Green Building.  DR  ABRIEFILY Explain the environmental benefits of Green Building.  DR  ABRIEFILY Explain the environmental benefits of Global warming?  DR  ABRIEFILY Explain the BREEAM assessment category?  10 L2  Module − 4  a. Briefly explain the BREEAM assessment category?  10 L2  DR  Briefly explain the BREEAM assessment category?  10 L2

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		OR	4.0		66
Q.8	a.	List and explain the characteristics of sustainable building in Green Building design.	10	L2	CO
	b.	List the objectives and principles of integrated life cycle design of materials and construction.	10	L2	CO
		Module – 5			
Q.9	a.	Explain the concept of solar passive heating in buildings.	10	L2	CO
	b.	Define green composite. List the advantages and disadvantages of Green	10	L2	СО
		composites for building.			
Q.10	a.	OR  Describe the process of management of solid waste.	10	L2	CO
Q.10					
	b.	Explain the concept of Green cover and build environment.	10	L2	CO
		2 of 2			