CBCS SCHEME

Time Shis

BETCK105B

First Semester B.E./B.Tech. Degree Examination, June/July 2025 Green Buildings

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.

		M	L	C
	Define the term Green Building. Explain any four green building materials.	10	L1	CO2
b.	List down the environmental impacts of building.	10	L2	CO1
	OR			
a.	(i) What is meant by stabilized mud block?	10	1.2	CO1
	(ii) What are the environmental impact of brick manufacturing.			001
b.	(i) What is meant by fibre-reinforced polymer composite?	10	L2	CO1
	(ii) Explain the benefits of adding lime to concrete.			001
	Module – 2			
a.		10	L2	CO2
-	(i) Filler slab (ii) Composite beam and panel roof (iii) Ferro-concrete			
b.	Explain role of Nirmithi Kendra and Habitat in developing and propagating	10	L2	CO2
	cost-effective construction.			
	OR			
a.	70. 7	10	L2	CO2
1	(ii) Corner wall comprising rat trap bond			
b.	(i) Write any five advantages of pre-engineered buildings.	10	L2	CO2
a.	(i) What is meant by Global Warming? Explain.	10	L2	CO3
ls	(II) Explain the effect of global warming.			
D.	Explain environmental benefits of Green buildings.	10	L2	CO3
	OR			
a.		10	Т 2	COL
b.	Explain the environmental life cycle of building.			CO3
	The state of the s	10	L2	CO3
	Module - 4			
	Discuss fundamental and the laborated habitat assessment.	10	L2	CO4
В.	Discuss fundamental principles of sustainable building design.	10	L2	CO4
	OR			
a.		10	T 2	004
b.	What is the difference between BREEAM and LEFD?	_		CO4
		10	L2	CO4
9				
	Write a short note on solar bases of solar power?	10	L2	CO5
υ,	write a short note on solar heating and cooling.	10	L2	CO5
	OR			
a.	Explain: (i) Sullage (ii) Sewage	10	1.2	CO5
b.	Explain the concept of Green composites.			CO5
	****	- 0		003
	a. b. a. b. a. b. a. b. a. b. a. b.	a. (i) What is meant by stabifized mud block? (ii) What are the environmental impact of brick manufacturing. b. (i) What is meant by fibre-reinforced polymer composite? (ii) Explain the benefits of adding lime to concrete. **Module - 2** a. Write short notes on: (i) Filler slab (ii) Composite beam and panel roof (iii) Ferro-concrete b. Explain role of Nirmithi Kendra and Habitat in developing and propagating cost-effective construction. **OR** a. Write notes on: (i) Cavity wall construction (ii) Corner wall comprising rat trap bond b. (i) Write any five advantages of pre-engineered buildings. (ii) What are the categories of building frame? **Module - 3** a. (i) What is meant by Global Warming? Explain. (ii) Explain the effect of global warming. b. Explain environmental benefits of Green buildings. **OR** a. Compare green building with conventional building. b. Explain the environmental life cycle of building. **Module - 4** a. Discuss green rating for integrated habitat assessment. b. Discuss fundamental principles of sustainable building design. **OR** a. What is BREEAM certified building? b. What is the difference between BREEAM and LEFD? **Module - 5** a. Define Solar Energy. Which are the two main categories of solar power? b. Write a short note on solar heating and cooling. **OR** a. Explain: (i) Sullage (ii) Sewage b. Explain the concept of Green composites.	a. Define the term Green Building. Explain any four green building materials. b. List down the environmental impacts of building. OR a. (i) What is meant by stabilized mud block? (ii) What are the environmental impact of brick manufacturing. b. (i) What is meant by fibre-reinforced polymer composite? (ii) Explain the benefits of adding lime to concrete. Module - 2 a. Write short notes on: (i) Filler slab (ii) Composite beam and panel roof (iii) Ferro-concrete Explain role of Nirmithi Kendra and Habitat in developing and propagating to cost-effective construction. OR a. Write notes on: (i) Cavity wall construction (ii) Corner wall comprising rat trap bond b. (i) Write any five advantages of pre-engineered buildings. (ii) What are the categories of building frame? Module - 3 a. (i) What is meant by Global Warming? Explain. (ii) Explain the effect of global warming. b. Explain environmental benefits of Green buildings. 10 OR a. Compare green building with conventional building. 10 DEXISTANCE OF BUILDINGS. 10 Noule - 4 a. Discuss green rating for integrated habitat assessment. 10 Discuss fundamental principles of sustainable building design. 10 OR a. What is BREEAM certified building? 10 Noule - 5 a. Define Solar Energy. Which are the two main categories of solar power? 10 Noule - 5 a. Define Solar Energy. Which are the two main categories of solar power? 10 Noule - 5 a. Define Solar Energy. Which are the two main categories of solar power? 10 Noule - 5 a. Define Solar Energy. Which are the two main categories of solar power? 10 Noule - 5 a. Define Solar Energy. Which are the two main categories of solar power? 10 Noule - 5 a. Define Solar Energy. Which are the two main categories of solar power? 10 Noule - 5 a. Explain: (i) Sullage (ii) Sewage 10 Noule - 5 a. Explain the concept of Green composites.	a. Define the term Green Building. Explain any four green building materials. b. List down the environmental impacts of building. OR a. (i) What is meant by stabilized mud block? (ii) What are the environmental impact of brick manufacturing. b. (i) What is meant by fibre-reinforced polymer composite? (ii) Explain the benefits of adding lime to concrete. Module – 2 a. Write short notes on: (i) Filler slab (ii) Composite beam and panel roof (iii) Ferro-concrete Explain role of Nirmithi Kendra and Habitat in developing and propagating to L2 cost-effective construction. OR a. Write notes on: (i) Cavity wall construction (ii) Corner wall comprising rat trap bond b. (i) Write any five advantages of pre-engineered buildings. (ii) What are the categories of building frame? Module – 3 a. (i) What is meant by Global Warming? Explain. (ii) Explain the effect of global warming? b. Explain environmental benefits of Green buildings. 10 L2 OR a. Compare green building with conventional building. 10 L2 Discuss fundamental principles of sustainable building design. 10 L2 OR a. What is BREEAM certified building? 10 L2 OR a. What is BREEAM certified building? 10 L2 Discuss fundamental principles of sustainable building design. OR a. Define Solar Energy, Which are the two main categories of solar power? OR a. Define Solar Energy, Which are the two main categories of solar power? OR a. Explain: (i) Sullage (ii) Sewage Define Solar Energy, Which are the two main categories of solar power? OR Explain the concept of Green composites.