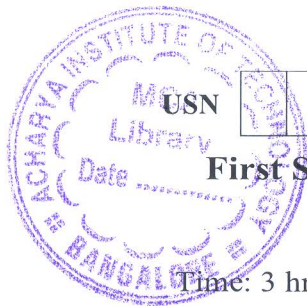


CBCS SCHEME

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 |
|------------|----|---|----|----|-----|
| Q.1 | 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 | | | | | |
| Q.2 | 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 | | | | | |
| Q.3 | 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 | | | | | |
| Q.4 | 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 | | | | | |
| Q.5 | a. | Mention the causes and effects of Global warming. | 10 | L2 | CO3 |
| | b. | Explain the environmental benefits of Green Building. | 10 | L2 | CO3 |
| OR | | | | | |
| Q.6 | a. | Mention the Benefits of energy efficient buildings. | 10 | L2 | CO3 |
| | b. | How buildings are contributing towards Global warming? | 10 | L2 | CO3 |
| Module – 4 | | | | | |
| Q.7 | a. | Briefly explain the BREEAM assessment category? | 10 | L2 | CO4 |
| | b. | Explain the criteria for a building rated as per GRIHA? | 10 | L2 | CO4 |

BETCK105B/BETCKB105**OR**

| | | | | | |
|------------|-----------|---|-----------|-----------|------------|
| Q.8 | a. | List and explain the characteristics of sustainable building in Green Building design. | 10 | L2 | CO4 |
| | b. | List the objectives and principles of integrated life cycle design of materials and construction. | 10 | L2 | CO4 |

Module – 5

| | | | | | |
|------------|-----------|---|-----------|-----------|------------|
| Q.9 | a. | Explain the concept of solar passive heating in buildings. | 10 | L2 | CO5 |
| | b. | Define green composite. List the advantages and disadvantages of Green composites for building. | 10 | L2 | CO5 |

OR

| | | | | | |
|-------------|-----------|---|-----------|-----------|------------|
| Q.10 | a. | Describe the process of management of solid waste. | 10 | L2 | CO5 |
| | b. | Explain the concept of Green cover and build environment. | 10 | L2 | CO5 |
