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# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## May 2023 Semester End Main Examinations

**Programme: B.E.**

**Branch: Common to all Branches**

**Course Code: 22CV1ESGBT**

**Course: Green Buildings**

**Semester: I**

**Duration: 3 hrs.**

**Max Marks: 100**

**Date: 08.05.2023**

**Instructions:** 1. Answer any FIVE full questions, choosing one full question from each unit.  
2. Missing data, if any, may be suitably assumed.

### MODULE - I

- 1 a) Illustrate a note on lime pozzolona cement and gypsum boards with relevance to cost effective construction material. **10**
- b) Brief out difference between concrete blocks and stabilized blocks used in construction of buildings. **10**

**OR**

- 2 a) Outline a difference between fiber reinforced cement components and fiber reinforced polymer composite. **10**
- b) Explain on various issues related to quarrying of building materials on environment. **10**

### MODULE - II

- 3 a) Brief out the differences between Rat trap bond and Flemish bond in detail. **10**
- b) Explain about the application on Ferro cement and Ferro concrete constructions in brief. **10**

**OR**

- 4 a) Discuss a note on filler slab roofing system in brief. **10**
- b) Explain in detail about pre-engineered building elements. **10**

### MODULE - III

- 5 a) Define the term global warming. Explain in detail about causes and effects of global warming. **10**
- b) How buildings are contributing to global warming and carbon emissions? **10**

### MODULE - IV

- 6 a) Explain the role and need of green building rating system in today's scenario related to environmental issues as per LEED rating system. **10**

**Important Note:** Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

- b) Outline on various sustainable construction practices that is been currently followed in India. **10**

**MODULE - V**

- 7 a) Explain the concept of solar passive cooling and heating of buildings in detail. **10**  
b) Outline a brief note on green buildings in Urban environment. **10**

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B.M.S.C.E. - ODD SEM 2022-23