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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.

Semester: I

Branch: Common to all Branches

Duration: 3 hrs.

Course Code: 22CV1ESGBT

Max Marks: 100

Course: Green Buildings

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 pozzolana 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**

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