

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,  
LONERE – RAIGAD -402 103  
Mid Semester Examination – OCTOBER - 2018**

**Branch: M.Arch (EA)      First Year**

**Sem.:- I**

**Subject:- Green Building Materials and Construction Technology**

**Subject Code: MAREA10100003**

**Marks: 40**

**Date: - 09-10-2018**

**Time: - 2 Hour.**

- Instructions: -**
- 1. The First question is compulsory**
  - 2. Answer any THREE out of the remaining.**
  - 3. Draw proper sketches wherever needed.**

**Q. No.1:- Write Short Notes on any 5**

**10 Marks**

- I. State the STANDARD and FUNCTIONAL unit for measuring Carbon Emission.**
- II. Steel in alternative form as a component of ferrocement**
- III. Use of Aluminum in buildings for different building components**
- IV. One innovative use of bamboo in interiors**
- V. Explain in short an alternative to single glazing**
- VI. Specify embodied energy of any four building materials you know.**

**Q. 2. Write about 5 alternative green building materials for building facades as either cladding or main material for the façade. Mention their performance suitability along with other characteristics such that they appear as the most preferred material.**

**10 Marks**

**Q. 3. Explain in short all the stages involved in Life Cycle Assessment/Analysis**

**10 Marks**

**Q. 4. Where is insulation needed in a building? Write about the most commonly used green materials for insulation in brief.**

**10 Marks**

**Q. 5. Write a note on ways and means of reducing embodied energy.**

**10 Marks**

**Q. 6. Detail Note on Procedure of LCA**

**10 Marks**