

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE - RAIGAD - 402 103
Summer Semester Examination, May 2018**

Branch: M. Arch. (General)

Semester: II

**Subject with Subject Code: Sustainable Architecture & Design
[MAR10200004]**

Marks: 80

Date: 16 / 05 / 2018

Time: 3 Hrs.

Instructions: 1] Questions No. 1 is compulsory and Attempt any FOUR from Question No. 2 to Question No. 6.
2] Figures / structures to the right indicate full marks.
3] Assume suitable data, if necessary.
4] Neat diagrams must be drawn wherever necessary.

Q. No. 1. Answer in single sentence with full form if required:

[15]

A)

- i. ECBC
- ii. EE
- iii. IGBC
- iv. EMS (ISO 14000)
- v. EIA

B) Match the columns.

- | | |
|----------------------------|------------------------|
| i. LCA | a. Candelas meter-2 |
| ii. Warm and Humid Climate | b. Lux |
| iii. Luminance | c. Life Cycle Analysis |
| iv. Composite | d. Pondicherry |
| v. Illuminance | e. Ahmadabad |

Attempt any FOUR Questions (Q. No. 2 to Q. No. 6) of the following.

- Q. No. 2** Write about transmission of light and Photometric quantities of light. **[15]**
- Q. No. 3** What is the process of EIA and steps involved in it? Write about one project example. **[15]**
- Q. No. 4** What are the goals of sustainability described by UNDP and also write about sustainable architecture. **[15]**
- Q. No. 5** Write any one climatic Zone in detail along with its strategies **[15]**
- Q. No. 6** Write about process of Life Cycle Analysis and explain the concept of Carbon Footprint **[15]**

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