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Roll No.

2088

B. Arch. EXAMINATION, May 2019

(Ninth Semester)

(Re-appear Only)

AR517G

SUSTAINABLE ARCHITECTURE–IX

Time : 3 Hours]

[Maximum Marks : 50

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : (i) Attempt *Five* questions in all, selecting at least *one* question from each Unit.

(ii) Neatness carry due weightage.

(iii) Make relevant sketches wherever necessary.

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P.T.O.

Unit I

1. (a) Define Energy Conscious Architecture. 7
(b) What are the advantages of Energy Conscious Architecture ? 8
2. (a) State with the help of examples how ecological balance can be maintained on earth. 7
(b) Explain the methods by which we can conserve energy in buildings. 8

Unit II

3. (a) What do you mean by natural resources and explain its types ? 7
(b) What is the need of preservation of natural resources ? 8
4. (a) What do you mean by Solar Passive Architecture ? Explain with the help of examples. 7
(b) Explain the use of the various strategies of solar passive architecture. 8

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Unit III

5. (a) Explain with the help of examples, how bio-mass can be connected into energy. 7
(b) Explain the current scenario of Bio-mass energy in India. 8
6. (a) State the various barriers in use of wind energy in India. 7
(b) Explain the methods by which the wind can be used to generate energy ? 8

Unit IV

7. (a) Why there is a need to change waste into energy, in the present day context ? 7
(b) Explain the methodology by which waste can be converted into energy. 8
8. Explain how the objectives of sustainable architecture can be achieved through :
 - (a) Energy Efficiency 7
 - (b) Management techniques 8

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