8. What do you understand by solid waste management ? Discuss in detail the strategies and measures that can be taken in your city to reduce solid waste and sustainable methods that can be adopted for solid waste management. **15**

No. of Printed Pages : 04 **Roll No. .....**

H-4007

B. Arch. EXAMINATION, May 2018

(Ninth Semester)

(Re-appear Only)

(ARCH)

AR517B

SUSTAINABLE ARCHITECTURE-IX

Time : 3 *Hours*] [*Maximum Marks :* 75

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 : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. Write short notes on any *three* of the following :

(a) Agenda 21

(b) Brundtland Report

(c) Kyoto protocol

(d) Intergovernmental Panel on climate change

(e) Forum for future. **15**

2. What do you understand by systems approach ? Define a system. Describe in detail the types of systems required for an integral design. **15**

Unit II

3. What are the factors that are to be considered while performing the site planning for an institutional project ? Discuss in detail any '5' factors related to site planning that are to be considered for an eco-friendly design. **15**

4. What do you understand by Greenfield Development ? Discuss in detail with the help of an example the strategies and measures that can be taken in a Green field development Project. **15**

Unit III

5. What are Low Temperature Thermal Systems ? Discuss in detail all the low temperature thermal systems and how it can be used in large scale Housing Project ? **15**

6. What is Wind Energy ? Discuss in detail with the help of an example, how wind energy can be utilised in various Architectural Projects. **15**

Unit IV

7. What is embodied energy ? Why is it important with respect to building materials ? Discuss in detail with the help of an example the significance of embodied energy in terms of sustainable building materials approach for the future. **15**