FIFTH SEMESTER B ARCH DEGREE EXAMINATION (2013 SCHEME) 13 AR 1504: SUSTAINABLE DEVELOPMENT (Model Question paper)

Time : 3 Hours

Marks :100

Instructions : 1) Answer ALL Questions 2) Illustrations in answers are important

1. Write short notes on the following

- a) Kyoto Protocol
- b) Human Development Index
- c) Embodied Energy
- d) Ecological Footprint
- e) Xeriscaping
- f) Environmental impacts of Industries
- g) Compost
- h) Air Pollution

2.

a) Define Global warming and state the reasons. Describe the major impacts and responses to Global Warming (15 marks)

OR

a) Explain the formation of Brundtland Commission and the terms and references for the Commission. State and describe the major sections of Brundtland Commission report.

(15 marks)

 $(8 \times 5 = 40 \text{ marks})$

- 3.
- a) Describe the major components of Sustainable Architecture and discuss on the major aspects of Sustainable site planning. (15 marks)

OR

b) Discuss in detail the major objectives and fundamental principles in Green building concept and describe any one Global Green rating system. (15 marks)

4.

a) Discuss different methods of Rain water harvesting systems. With a neat sketch explain a domestic water harvesting system with all the necessary components

(15 marks)

OR

b) Explain major systems of Water recycling and list the various uses of recycled water.

(15 marks)

5.

a) Define Waste Management. Explain various systems of waste management and methods of disposal. (15 marks)

OR

b) What are the major processes of Recycling of used materials in to new products?Explain on five major types of recyclables in building construction. (15 marks)