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## MANIPAL UNIVERSITY

### SECOND SEMESTER B. ARCH. DEGREE EXAMINATION – JULY 2017

#### SUBJECT: ENVIRONMENTAL STUDIES (ARC-116) (2010 SCHEME)

Monday, July 10, 2017

Time: 10:00 – 13:00 Hrs.

Max. Marks: 50

- ✍ Answer ANY FIVE full questions.
- ✍ The answers should be supported by sketches wherever necessary.
- ✍ Assume suitable data wherever necessary.

- 1A. What do you understand by Biodiversity? Enumerate the human actions which have disturbed biodiversity.
- 1B. Discuss a few essential issues concerned with Sustainability.

(5+5 = 10 marks)

2. Discuss any residence designed by Nariman Gandhi and highlight the environmental concerns addressed by the architect. Give sketches to explain the answer.

(10 marks)

3. Discuss the concept, design and functioning of the Heliotrop House by Rolf DiSch and its relevance to environmental architecture. Give sketches to explain the answer.

(10 marks)

- 4A. Garbage has become a major concern for safeguarding the environment. Discuss.

- 4B. Write in brief the methods to deal with sewage treatment.

(5+5 = 10 marks)

- 5A. Water conservation is the need of the hour. Discuss methods to ensure the same.

- 5B. Discuss why food security is a major concern for the world today and the major reasons causing it.

(5+5 = 10 marks)

- 6A. What is global warming and what are the major adverse effects of it?

- 6B. Write in brief about the various Acts and Protocols for safeguard of the environment.

(5+5 = 10 marks)

