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MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST/SECOND SEMESTER B. ARCH. DEGREE EXAMINATION – NOVEMBER 2018

SUBJECT: ARC-14-111 – PRINCIPLES OF ENVIRONMENTAL DESIGN (2014 SCHEME)/
ARC 116 ENVIRONMENTAL STUDIES (2010 SCHEME)

Friday, November 09, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 50

- ✍ Answer any FIVE questions.
- ✍ Support the answers with sketches wherever necessary.

1. Define the term built environment. Highlight its major components.
(6+4 = 10 marks)
2. Briefly explain the below and also mention their causes and impacts:
2A. Heat Island effect
2B. Urban sprawl
(5+5 = 10 marks)
3. Write a short note on the importance of following aspects in climatic responsive design of buildings:
3A. Trombe Wall
3B. Openings in buildings
(5+5 = 10 marks)
- 4A. How does a courtyard help in maintaining the thermal comfort of a building?
4B. What are the principles of organic architecture?
(5+5 = 10 marks)
5. Explain role of an architect as a custodian of Built Environment.
(10 marks)
6. Explain the principles and philosophy of Nari Gandhi as an Eco-Sensitive Architect.
(10 marks)

