

# SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR) NOVEMBER - 2016

## M. ARCH I YEAR I SEMESTER

### ENVIRONMENTAL CODES AND ENERGY RATINGS (10210105)

Maximum Marks – 50

Time –2 Hours

*a) Answer any Two questions out of 1 to 4 questions.*

*b) Question No.5 is compulsory and answer any four out of six sub-questions.*

- Q1. a) Give a detailed view about role of UNFCCC on (10+5)  
adverse climate effects.  
b) Rio-Earth Summit.
- Q2. Write a detailed essay on Sustainable and energy (15M)  
efficient development by following the guidelines of  
ECBC 2007.
- Q3. a) Write a brief note on IGBC and LEED. (5+10)  
b) Taking an example of a prominent LEED Gold or  
platinum rated building, explain in detail the issues  
and challenges while designing a Green Building.
- Q4. a) Write a detailed note on Energy conservation (15M)  
(Amendment) Act, 2010.  
b) Standards and Labeling Programme.
- Q5. Write short notes on any FOUR of the following: (4x 5  
=20M)
- a) Passive techniques in Building envelope  
mentioned in ECBC
  - b) Kyoto protocol
  - c) Energy Efficient alternate building materials
  - d) Waste management methods in GRIHA Rated  
buildings
  - e) Whole Building performance method
  - f) Bachat Lamp Yojana

\*\*\*\*\*