END TERM EXAMINATION

SEVENTH SEMESTER [B.TECH] NOVEMBER-DECEMBER 2018

Paper Code: ETEN 419

Subject: Planning & Design of Green Buildings

ETEN 421

Maximum Marks:75

Note: Attempt five questions in all including Q. No. 1 which is compulsory.

O1. Write the short notes on the following:

(5x5=25)

- a) CO2 emission trade
- b) Barriers of green building
- c) Passive cooling
- d) Pest control in green building
- e) Blower Door test
- Q2. a) Give the brief note on the historical development of green building. (6)
 - b) Elaborate the concept of green building. Give any one example of green building. (6.5)
- Q3. What is GRIHA, LEED & IGBC? Explain LEED rating system in detail. (12.5)
- Q4. Discuss the concept and principle of Earth Air Tunnel System in detail.

 Also indicate the importance parameters that impact the performance of the Earth Air Tunnel System. (12.5)
- Q5. What are the problems associated with selection of inappropriate building materials? Also explain about the materials and furnishings used in the construction of green buildings. (12.5)
- Q6. What are the different type of waste generated during the entire life cycle of conventional building and how it can be managed in green building? (12.5)
- Q7. How following features helpful in designing energy efficient building? (12.5)
 - a) Orientation of building
 - b) Site selection and development
 - c) Building envelopes
- Q8. What are the source of air and noise pollution during construction and demolition activities and also discuss the guidelines to reduce the air and noise pollution during the same. (12.5)
- Q9. How the water can be conserved and water efficiency of green building can be increased during the construction and operation phase of green building. (12.5)
