

**APJ Abdul Kalam Technological University**  
**Seventh Semester BTech (Honors) Examination, December 2019**  
**Course code: 02ME 6252.5**  
**Course Name: GREEN BUILDINGS**

Time: 3 Hrs

Max. Marks: 60

**Instructions:** *Answer All Questions from Part A.*

*Answer Two Full questions from Part B.*

**PART A**

1. What are the advantages of conventional vs energy efficient building?
2. Explain about how energy efficient landscaping affects the microclimate of building?
3. Comment on radiant cooling?
4. Mention four methods for solar passive cooling?

**(4 x 9=36)**

**PART B**

5. (a) How energy can be saved in
  - A) Lighting
  - B) Air Conditioning units
  - C) Motors

(b) which are the points to be observed for buying electronic equipments that are to be energy efficient?
6. (a) How renewable source of energy can be incorporated in building?

(b) Which are the losses that are associated with electrical power supply system?
7. (a) "1/3 of energy in houses are utilized for heating water" how this can be saved in green buildings?

(b) Write a short note on A) Hybrid systems B) Photo voltaic systems

**(2 x 12=24)**