

Course No: CIVIL 3219
 Course Title: Introduction in sustainability and renewable energy.
 Date: 17/1/2017
 No. of Questions: (6)

University of Palestine



Final Exam
 2016/2017
 Total Grade: 50

Instructor Name: Eng. Nael Al-Khozondar
 Student No.: _____
 Student Name: _____
 College Name: _____
 Dep. / Specialist: _____

Answer the following questions:

Question One : mark the following statements as (T) or (F) and correct the mistake (10 marks)

True (√) or false (X):

- Sustainability is the nexus of society, the environment, and the economy.
- Solar thermal heating technologies involve harvesting energy from the wind.
- Geothermal energy convert the energy of blowing wind to electricity.
- Waste are classified according to their effects on human health to bio-degradable and non-biodegradable.
- The amount of energy delivered to any place depends only on geographic location.
- Liquid waste is the biologically degradable part of waste.
- Recovery is the use of reclaimed water from one application for another application.
- Production of biodiesel is waste free.
- Wind energy is a non renewable energy.
- The building constructions impact on global warming.

Question Two: What is the difference between: (12 marks)

Energy Star	Breem
Water Recycle	Water Reuse
Drag design wind turbine	Lift design wind turbine
Natural lighting	Landfill

Question Three: briefly discuss the following (15marks)

- The principles of water conservation.
- Advantages and disadvantages of geothermal energy.
- Leed and its advantages .
- Nuclear fuel cycle.
- Composting & mechanical composting.

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Question four: Draw in details

(9 marks)

- Wind turbine.
- Passive solar heating system.
- Flat plate collectors.

Question five :

(4 marks)

- Designed with drawing green building achieves principles of sustainability.

Question six : (خاص بالطلبة المقبولة اعدارهم لامتحان النصف الثاني)

(15 marks)

- 1- Briefly discuss the following :
 - Biomass energy.
 - Energy efficiency
- 2- What is the difference between Hydropower & Ocean wave power.
- 3- Draw with details the MRF.

-Good luck-