

**Name of the Examinations: B.E. INFORMATION TECHNOLOGY  
FOURTH YEAR SECOND SEMESTER (OLD) – 2017  
Subject: ENVIRONMENT AND ENERGY MANAGEMENT**

TIME: 3 hr.

Full Marks: 100

**Answer I and any four from the rest.**

**I. Multiple Choice Questions**

**2x10=20**

**1. Biotic environment includes**

- (a) producers                      (b) consumers    (c) decomposers                      (d) all the above

**2. Decomposers include**

- (a) bacteria                      (b) fungi            (c) both                      (d) animals

**3. Abiotic environment does not include**

- (a) air                      (b) water            (c) soil                      (d) plants

**4. Vermicomposting is done by**

- (a) fungus                      (b) bacteria                      (c) worms                      (d) animals

**5. The group of organisms which convert light into food are called**

- (a) autotrophs                      (b) heterotrophs    (c) decomposers                      (d) omnivores

**6. Which one the following is not biodegradable?**

- (a) vegetables                      (b) fruits    (c) earthworm                      (d) aluminium foil

**7. Animal(s) which is/are active at night.**

- (a) owl                      (b) rat    (c) cockroach                      (d) all the above

**8. An animal that can tolerate the heat of the desert is**

- (a) rats                      (b) camel            (c) cow                      (d) lion

**9. Air pollution is caused by**

- (a) Insecticides                      (b) Sewage                      (c) Smoke                      (d) Loud speakers

**10. If waste materials contaminate the source of drinking water which of the following diseases will spread?**

- (a) Scurvy                      (b) Typhoid                      (c) Malaria                      (d) Anaemia

2. a) Write a paragraph on ecological pyramids.

b) Describe the concept of ecosystem.

(10+10)

3. a) Define the term air pollution. What are the major sources of air pollution?

b) What are the major greenhouse gases? Mention major sources of greenhouse gases in the Atmosphere.

c) Define global warming. State the effects of global warming. ((2+6) +(3+3)+(2+4))

4. a) Give an example of energy flow of an ecosystem with a diagram. What is meant by the term foodweb?

b) Draw the diagram of carbon cycle. Draw the diagram of oxygen cycle. ((5+5)+(5+5))

5. a) What are the major sources of treatment of waste water? What is meant by the term 'carrying capacity'?

b) What are the bad effects of lead poisoning on human health? How can we control lead pollution?

((5+5)+(5+5))

6. Write short notes on any four

(5x4)

a) Biosphere

b) Soil erosion

c) Air pollution

d) Noise pollution

e) Ozone layer