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<p>Damietta University Faculty of Science Environmental Science Dept. 1st year Env. Sc./ Env. Sc. & Chemistry Students</p>	 <p>Damietta University Final Exam 2024</p>	<p>Course Title: Scientific Concepts in Environmental Science Course Code: (102 E) Date: 13/6/2024 Time: 1 Hour</p>
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Answer All the following Questions **Total Mark: 60**

Question (1): (40 Mark)

A) Choose the correct answer: (33 Mark)

1. is an example of biotic resource.
 - a) Air
 - b) Land
 - c) Natural gas
 - d) Water

2. **Ecosystem is**
 - a) The area we live in at a given point in time.
 - b) The sum of all physical, chemical, biological and social factors, which compose the surroundings of man.
 - c) A place where living things reside together with other non-living things.
 - d) A community where the living and nonliving components of the environment are in continuous interaction.

3. **Decomposers are**
 - a) Non-living components of an ecosystem.
 - b) Organisms that produce food through photosynthesis.
 - c) Organisms that do not depend on other organisms for food.
 - d) Organisms that feed on dead and decaying organic matter.

4. **Nuclear fusion is a process**.....
 - a) by which an atom loses or gains electrons to form an ion.
 - b) of splitting an atom's nucleus into two fragments, releasing energy.
 - c) of combining heavy nuclei to form less massive nuclei with the release of energy.
 - d) of combining light nuclei to form more massive nuclei with the release of energy.

5. **The key characteristic of renewable energies is that**.....
 - a) They have negative impacts on the environment.
 - b) They are finite in supply.
 - c) They are continually available.
 - d) None of the above.

6. The least harmful fossil fuels to the environment is.....

- a) Oil
- b) Natural gas
- c) Wood
- d) Coal

7. Sustainable development is the development that.....

- a) only meets the needs of the present generation.
- b) meets the needs of future generations without considering the present.
- c) only meets the needs of future generations.
- d) meets the needs of the present without compromising the ability of future generations to meet their own needs.

8. A resource is any material.....

- a) found in nature which cannot be transformed into more valuable and useful things.
- b) given to us by humans which can be transformed in a way that it becomes more valuable and useful.
- c) given to us by nature which can be transformed in a way that it becomes more valuable and useful.
- d) found in nature which humans cannot use.

9. Is nuclear power considered a form of renewable energy?

- a) Yes
- b) No

10. What are the effects of acid rain on the environment?

- a) It can harm plants and wildlife, such as insects and fish.
- b) It can damage buildings and monuments made of limestone and marble.
- c) It can increase the acidity of lakes, rivers, and streams, harming aquatic life.
- d) All of the above.

11. All the following are the disadvantages of non-renewable energy except

- a) Available only in few places.
- b) Highly polluting.
- c) Often very difficult to store.
- d) will one day get exhausted.

B) Why is atmosphere important in an ecosystem? (7 Marks)

Question (2): (20 Mark)

A) Mention to the environmental impacts of nuclear energy. (8Marks)

B) Illustrate the disadvantages of geothermal energy. (4 Marks)

C) Compare between two types of geothermal power plants. (8 Marks)

-----**With my best wishes**-----

Dr. Basma Omar