

Started on Sunday, 30 March 2025, 4:26 PM

State Finished

Completed on Sunday, 30 March 2025, 4:33 PM

Time taken 7 mins 16 secs

Marks 47.00/50.00

Grade **94.00** out of 100.00

Question 1

Incorrect

Mark 0.00 out of 1.00

Particulates can:

Select one:

- ☒ a. cause acid rain ✖
- ☐ b. reduce photosynthesis
- ☐ c. cause lung and heart disease
- ☐ d. none of these

Question 2

Correct

Mark 1.00 out of 1.00

The least expensive and most sustainable way to meet our energy needs into the future is to:

Select one:

- ☐ a. drill for oil wherever it is found.
- ☒ b. develop renewable energy sources. ✔
- ☐ c. invest in nuclear energy.
- ☐ d. explore energy sources on other planets.

Question 3

Correct

Mark 1.00 out of 1.00

The non-hazardous materials that result from the production of goods and products by various industries are known as:

Select one:

- ☐ a. high level waste
- ☒ b. industrial solid waste ✔
- ☐ c. low level waste
- ☐ d. mixed waste

Question 4

Correct

Mark 1.00 out of 1.00

Renewable resources include:

Select one:

- ☒ a. wind and sunlight. ✓
- ☐ b. fossil fuels.
- ☐ c. nuclear power.
- ☐ d. all of the above.

Question 5

Correct

Mark 1.00 out of 1.00

The land ethic _____.

Select one:

- ☐ a. suggests that citizens be required to recycle
- ☒ b. changes the role of Homo sapiens from conqueror of the land-community to plain member and citizen of it ✓
- ☐ c. suggests that countries should be classified as either developing or developed.

Question 6

Correct

Mark 1.00 out of 1.00

Horizon(s) important for plant growth is (are):

Select one:

- ☐ a. B and C
- ☐ b. R
- ☒ c. A and O ✓
- ☐ d. E

Question 7

Correct

Mark 1.00 out of 1.00

Bacillus thuringensis is an example of _____ of pests.

Select one:

- ☒ a. biological control ✓
- ☐ b. chemical control
- ☐ c. mechanical control

Question 8

Correct

Mark 1.00 out of 1.00

_____ people lack access to safe drinking water and _____ lacks adequate sanitation.

Select one:

- ☐ a. 100,000 and 26, 000
- ☐ b. 10, 000 and 260, 000
- ☒ c. 1.1. billion and 2.6 billion ✓
- ☐ d. 1.1. million and 2.6 million

Question 9

Correct

Mark 1.00 out of 1.00

Two of the most powerful forces of societal change in modern times have been:

Select one:

- ☒ a. colonialism and scientific and technological development ✓
- ☐ b. sustainable development and reforestation
- ☐ c. exploitation and consumption of resources
- ☐ d. social equality and population explosion

Question 10

Correct

Mark 1.00 out of 1.00

The type of logical thinking that uses related observations to arrive at a general conclusion is called _____.

Select one:

- ☐ a. deductive reasoning
- ☐ b. the scientific method
- ☐ c. hypothesis-based science
- ☒ d. inductive reasoning ✓

Question 11

Correct

Mark 1.00 out of 1.00

If the costs of a project are borne disproportionately by a single group of people, the project hasn't met the criteria of:

Select one:

- ☒ a. fairness ✓
- ☐ b. efficiency
- ☐ c. cost effectiveness
- ☐ d. incentives to innovate

Question 12

Correct

Mark 1.00 out of 1.00

What kind of ecosystem are exotic species especially threatening to?

Select one:

- ☐ a. deserts
- ☐ b. marine ecosystems
- ☒ c. islands ✓
- ☐ d. tropical forests

Question 13

Correct

Mark 1.00 out of 1.00

This is the largest waste disposal practice in the United States:

Select one:

- ☐ a. recycling
- ☐ b. incineration
- ☐ c. composting
- ☒ d. landfills ✓

Question 14

Correct

Mark 1.00 out of 1.00

_____ is a major fuel resource that the United States controls domestically.

Select one:

- ☐ a. Oil
- ☐ b. Natural gas
- ☒ c. Coal ✓

Question 15

Correct

Mark 1.00 out of 1.00

Quarantina, the Favéla, and Santa Cruz Meyehualco:

Select one:

- ☐ a. are examples of sustainable cities
- ☐ b. generated the most tax revenue for new infrastructure
- ☐ c. established successful public transportation systems
- ☒ d. none of the above is true ✓

Question 16

Correct

Mark 1.00 out of 1.00

The maximum growth rate characteristic of a species is called its _____.

Select one:

- ☐ a. limit
- ☐ b. carrying capacity
- ☒ c. biotic potential ✓
- ☐ d. exponential growth pattern

Question 17

Correct

Mark 1.00 out of 1.00

This is the agreement that bans the import of all hazardous and radioactive wastes into South Pacific Forum Island Countries.

Select one:

- ☐ a. Basel Convention
- ☒ b. Waigani Convention ✓
- ☐ c. CERCLA
- ☐ d. RCRA

Question 18

Correct

Mark 1.00 out of 1.00

Which two extinction risks may be a direct result of the pet trade?

Select one:

- ☐ a. climate change and exotic species introduction
- ☐ b. habitat loss and overharvesting
- ☒ c. overharvesting and exotic species introduction ✓
- ☐ d. habitat loss and climate change

Question 19

Correct

Mark 1.00 out of 1.00

Which of the following statements is not true?

Select one:

- ☐ a. Water is polar.
- ☐ b. Water stabilizes temperature.
- ☐ c. Water is essential for life.
- ☒ d. Water is the most abundant atom in Earth's atmosphere. ✓

Question 20

Correct

Mark 1.00 out of 1.00

Teratogens _____.

Select one:

- ☐ a. Induce genetic changes.
- ☒ b. Cause physical defects in a developing embryo. ✓
- ☐ c. Cause adverse effect on the nervous system.
- ☐ d. A and B are correct

Question 21

Correct

Mark 1.00 out of 1.00

A country with zero population growth is likely to be _____.

Select one:

- ☐ a. in Africa
- ☐ b. in Asia
- ☒ c. economically developed ✓
- ☐ d. economically underdeveloped

Question 22

Correct

Mark 1.00 out of 1.00

A secondary plant compound might be used for which of the following?

Select one:

- ☐ a. a new crop variety
- ☒ b. a new drug ✓
- ☐ c. a soil nutrient
- ☐ d. a crop pest

Question 23

Correct

Mark 1.00 out of 1.00

The smallest unit of biological structure that meets the functional requirements of "living" is the _____.

Select one:

- ☐ a. organ
- ☐ b. organelle
- ☒ c. cell ✓
- ☐ d. macromolecule

Question 24

Correct

Mark 1.00 out of 1.00

The top killers of children under five are:

Select one:

- ☐ a. acute respiratory infections and diarrheal disease
- ☐ b. malaria
- ☒ c. Both A and B ✓
- ☐ d. arsenic poisoning

Question 25

Correct

Mark 1.00 out of 1.00

____ percent of the world's energy consumption and ____ percent of the United States energy consumption comes from oil.

Select one:

- ☒ a. 37, 43 ✓
- ☐ b. 80, 90
- ☐ c. 7, 16
- ☐ d. 26, 5

Question 26

Correct

Mark 1.00 out of 1.00

What is the difference between micro- and macroevolution?

Select one:

- ☐ a. Microevolution describes the evolution of small organisms, such as insects, while macroevolution describes the evolution of large organisms, like people and elephants.
- ☐ b. Microevolution describes the evolution of microscopic entities, such as molecules and proteins, while macroevolution describes the evolution of whole organisms.
- ☒ c. Microevolution describes the evolution of populations, while macroevolution describes the emergence of new species over long periods of time. ✓
- ☐ d. Microevolution describes the evolution of organisms over their lifetimes, while macroevolution describes the evolution of organisms over multiple generations.

Question 27

Correct

Mark 1.00 out of 1.00

Using a pH meter, you find the pH of an unknown solution to be 8.0. How would you describe this solution?

Select one:

- ☐ a. weakly acidic
- ☐ b. strongly acidic
- ☒ c. weakly basic ✓
- ☐ d. strongly basic

Question 28

Correct

Mark 1.00 out of 1.00

The producer in an ocean grazing food web is usually a _____.

Select one:

- ☐ a. plant
- ☐ b. animal
- ☐ c. fungi
- ☒ d. plankton ✓

Question 29

Correct

Mark 1.00 out of 1.00

The first species to live on new land, such as that formed from volcanic lava, are called _____.

Select one:

- ☐ a. climax community
- ☐ b. keystone species
- ☐ c. foundation species
- ☒ d. pioneer species ✓

Question 30

Correct

Mark 1.00 out of 1.00

The holder of oil reserves in the oil market is the:

Select one:

- ☒ a. OPEC ✓
- ☐ b. OECD
- ☐ c. OSLC

Question 31

Correct

Mark 1.00 out of 1.00

In what year was the Superfund Act passed?

Select one:

- ☐ a. 1964
- ☐ b. 1977
- ☒ c. 1980 ✓
- ☐ d. 1999

Question 32

Correct

Mark 1.00 out of 1.00

Rain:

Select one:

- ☒ a. is naturally acidic ✓
- ☐ b. is turned to acid rain by ozone
- ☐ c. has become more alkaline in recent decades
- ☐ d. all of these

Question 33

Correct

Mark 1.00 out of 1.00

Macronutrients include:

Select one:

- ☐ a. vitamins and minerals.
- ☒ b. carbohydrates, lipids, and proteins. ✓
- ☐ c. calcium, potassium, and water.
- ☐ d. all of the above.

Question 34

Correct

Mark 1.00 out of 1.00

Geothermal power plants emit ____ percent less acid rain-causing sulfur compounds than are emitted by fossil fuel plants.

Select one:

- ☐ a. 15
- ☐ b. 30
- ☐ c. 70
- ☒ d. 97 ✓

Question 35

Correct

Mark 1.00 out of 1.00

One of the most notorious dead zones is found:

Select one:

- ☐ a. in industrialized areas in developed nations.
- ☒ b. in the Gulf of Mexico. ✓
- ☐ c. in farming areas in developing nations.
- ☐ d. none of these.

Question 36

Correct

Mark 1.00 out of 1.00

The greenhouse effect:

Select one:

- ☐ a. occurs when gases in the atmosphere direct the sun's heat into the atmosphere.
- ☒ b. occurs when gases in the atmosphere reflect the sun's heat back down to Earth's surface. ✓
- ☐ c. occurs when gases in the atmosphere direct extra heat out into the atmosphere.
- ☐ d. none of the above

Question 37

Correct

Mark 1.00 out of 1.00

Polychlorinated biphenyls:

Select one:

- ☐ a. are POPs.
- ☐ b. break down easily in the environment.
- ☐ c. are endocrine disruptors.
- ☒ d. Both A and C ✓

Question 38

Correct

Mark 1.00 out of 1.00

True or False: Compact cities occupy larger area than sprawling cities.

Select one:

- ☐ True
- ☒ False ✓

Question 39

Correct

Mark 1.00 out of 1.00

Fresh water can be made from seawater by the process of _____.

Select one:

- ☐ a. calcification
- ☒ b. desalination ✓
- ☐ c. purification

Question 40

Correct

Mark 1.00 out of 1.00

From where does a heterotroph directly obtain its energy?

Select one:

- ☐ a. the sun
- ☐ b. the sun and eating other organisms
- ☒ c. eating other organisms ✓
- ☐ d. simple chemicals in the environment

Question 41

Correct

Mark 1.00 out of 1.00

A symbiotic relationship where both of the co-existing species benefit from the interaction is called _____.

Select one:

- ☐ a. commensalism
- ☐ b. parasitism
- ☒ c. mutualism ✓
- ☐ d. communism

Question 42

Correct

Mark 1.00 out of 1.00

_____ seeks to minimize the limitations of a risk assessment based regulatory policy by encouraging a search for alternatives whenever a potentially hazardous chemical is identified.

Select one:

- ☐ a. Ecolabeling
- ☒ b. Precautionary principle ✓
- ☐ c. Market analysis
- ☐ d. Environmental justice

Question 43

Correct

Mark 1.00 out of 1.00

The process whereby oxygen is depleted by the growth of microorganisms due to excess nutrients in aquatic systems is called _____.

Select one:

- ☐ a. dead zoning
- ☒ b. eutrophication ✓
- ☐ c. retrophication
- ☐ d. depletion

Question 44

Correct

Mark 1.00 out of 1.00

Which of the following situations will lead to natural selection?

Select one:

- ☐ a. The seeds of two plants land near each other and one grows larger than the other.
- ☐ b. Two types of fish eat the same kind of food, and one is better able to gather food than the other.
- ☐ c. Male lions compete for the right to mate with females, with only one possible winner.
- ☒ d. all of the above ✓

Question 45

Correct

Mark 1.00 out of 1.00

When two or more crops are in close proximity to each other during part or all of their life cycles is known as:

Select one:

- ☐ a. conservation
- ☒ b. intercropping ✓
- ☐ c. crop rotation
- ☐ d. precision agriculture

Question 46

Correct

Mark 1.00 out of 1.00

_____ people in developing countries do not have satisfactory sanitation.

Select one:

- ☐ a. Nearly all
- ☒ b. 2.6 billion ✓
- ☐ c. 823,000
- ☐ d. none of the above is true

Question 47

Correct

Mark 1.00 out of 1.00

The Rotterdam Convention:

Select one:

- ☐ a. is a commitment to achieve cleaner industrial production.
- ☒ b. addresses trade in hazardous pesticides and chemicals. ✓
- ☐ c. protects world's endangered species.
- ☐ d. is a partnership agreement to develop environmental guidelines for sports federations and countries bidding to host the Olympic games.

Question 48

Incorrect

Mark 0.00 out of 1.00

When women eat after everyone else has eaten at a meal and are less likely than men in the same household to consume preferred foods such as meats and fish indicates lack of food:

Select one:

- ☒ a. access. ✗
- ☐ b. utilization.
- ☐ c. availability.
- ☐ d. stability.

Question 49

Correct

Mark 1.00 out of 1.00

Concern(s) about genetically modified organisms is (are):

Select one:

- ☐ a. that little is known about the long-term safety of consuming food made from GM products
- ☐ b. monopolization of the global agricultural food and controlling distribution of the world food supply by agri-business companies
- ☐ c. genetic contamination of non-GMO crops
- ☒ d. all of the above ✓

Question 50

Incorrect

Mark 0.00 out of 1.00

Which of the following methods will provide information to an ecologist about both the size and density of a population?

Select one:

- ☒ a. mark and recapture ✖
- ☐ b. mark and release
- ☐ c. quadrat
- ☐ d. life table