

WGU.Introduction-to-Biology.v2026-10-29.q27

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NEW QUESTION: 1

Homologous chromosome pairs are undergoing crossing over but have not yet lined up at the cell's midline.

Which stage is this?

- A. Prophase II
- B. Anaphase I
- C. Anaphase II
- D. Prophase I

Answer: (SHOW ANSWER)

NEW QUESTION: 2

Which genotype indicates an individual with no recessive alleles?

- A. aaBB
- B. AAbb
- C. aabb
- D. AABB

Answer: (SHOW ANSWER)

NEW QUESTION: 3

Coral reefs are built from calcium carbonate secretions of coral polyps and support diverse communities, but many are shrinking due to climate change. Which activity would have a negative impact on coral reef biodiversity?

- A. Increasing use of sustainable technologies
- B. Increasing the use of renewable energy sources
- C. Developing technologies that reduce pollutants
- D. Increasing use of fossil fuels

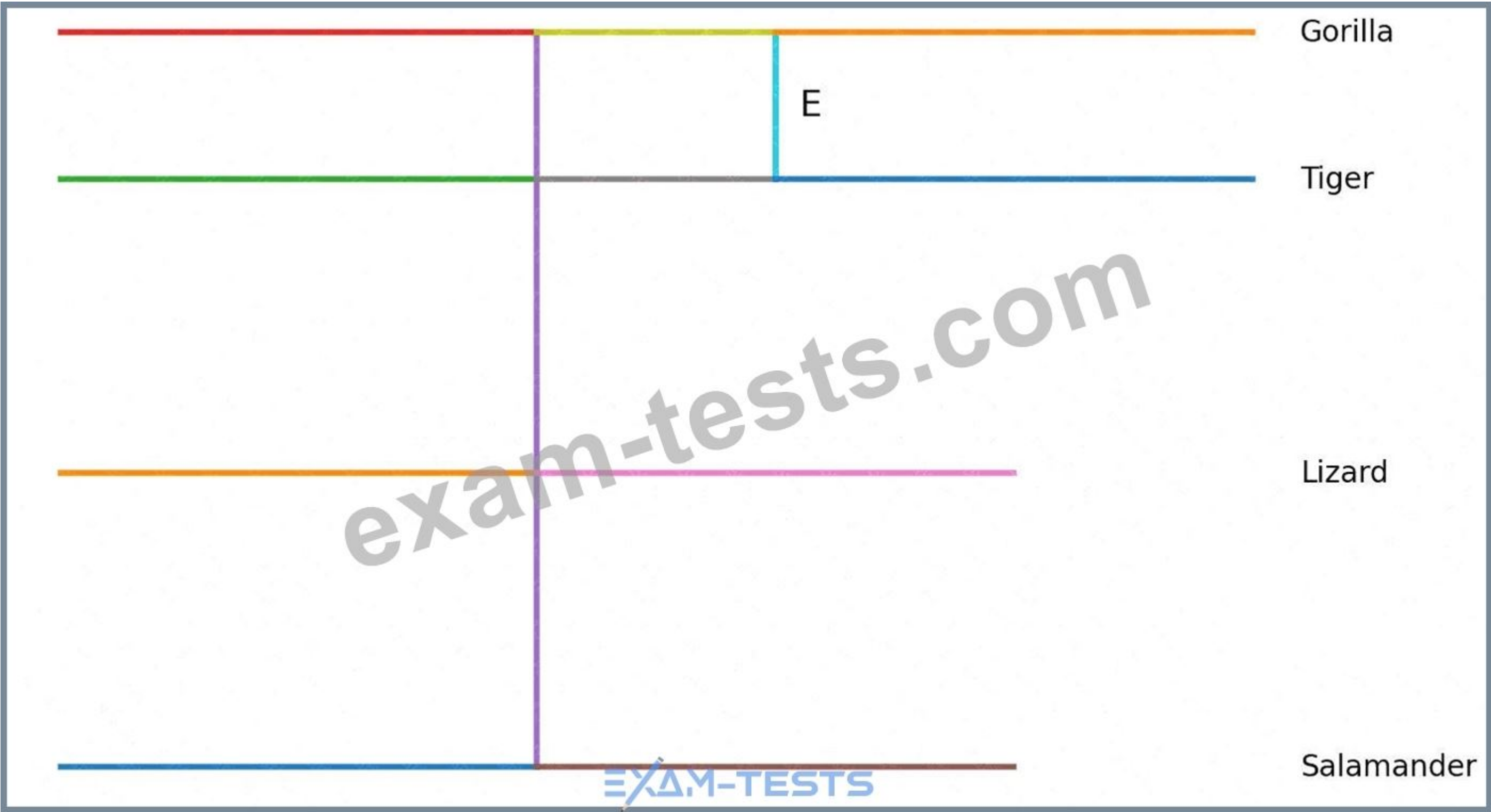
Answer: D (LEAVE A REPLY)

NEW QUESTION: 4

Which organism in this food web is a decomposer?

- A. Frog
 - B. Damselfly
 - C. Bacteria
 - D. Algae
- Answer: (SHOW ANSWER)

NEW QUESTION: 5



Using theTetrapod Cladogram (Node E), the common ancestor at locationEgives rise to which two organisms?(Choose 2 answers)

- A. Salamander

- B. Lizard
- C. Tiger
- D. Gorilla

Answer: C,D ([LEAVE A REPLY](#))

NEW QUESTION: 6

During which stage of meiosis do homologous pairs of chromosomes separate from each other?

- A. Metaphase II
- B. Metaphase I
- C. Anaphase II
- D. Anaphase I

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 7

Which statement correctly describes how an ionic bond forms?

- A. Two atoms are attracted to a nearby hydrogen atom that binds them together
- B. Two atomic nuclei fuse to form a single molecule
- C. An electron is transferred from one atom to another
- D. Two ions share several pairs of electrons

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 8

The Mojave Desert is hot and dry. Roadrunners (endothermic, ground-dwelling birds) already have adaptations that reduce daytime heat gain. If average temperatures rise as predicted, how is their plumage most likely to change under natural selection?

- A. Become lighter to increase reflection of heat
- B. Become longer to increase heat absorption
- C. Become darker to absorb more environmental heat
- D. Become thicker to trap more heat

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 9

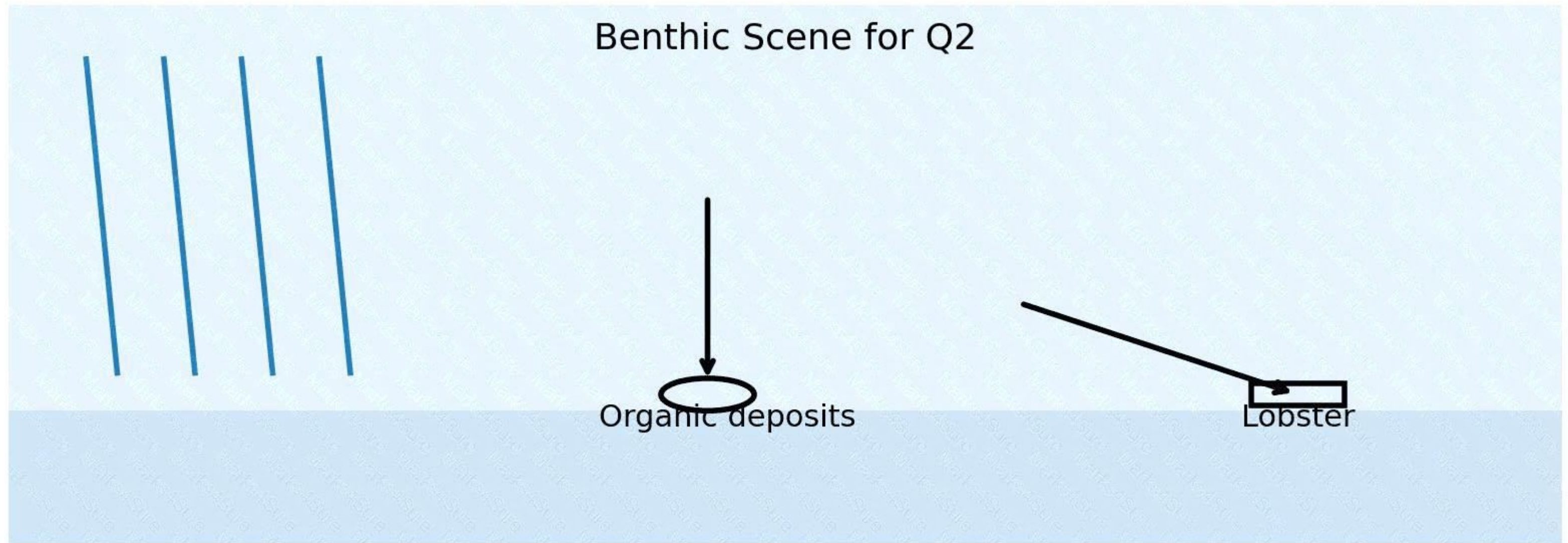
What plays multiple roles in the nitrogen cycle, including converting nitrogen gas into a plant-usable form?

- A. Fungi
- B. Animals
- C. Lightning
- D. Bacteria

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 10

Refer to the diagram "Arctic Marine System Components."



Which components in the figure are abiotic?

- A. Fish and zooplankton
- B. Sea ice and CO₂
- C. Organic deposits, lobster, and polar bear
- D. Sunlight, organic deposits, and phytoplankton

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 11

What is the function of the centromere during M phase?

- A. Copying the chromosomes
- B. Holding sister chromatids together until they separate to move to opposite poles
- C. Keeping chromosomes condensed and packaged during cell division
- D. Pushing each sister chromatid to one of the poles

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 12

How is DNA organized during prophase, and why?

- A. Uncondensed because it needs to be lined up at the center
- B. Condensed, which makes it easier to move
- C. Organized into paired chromatids to keep it lined up at the center
- D. Uncondensed because it needs to move toward the poles

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 13

What is the correct order of the major events in DNA replication?

- A. Joining the two DNA strands # synthesis of a complementary strand # unwinding the DNA
- B. Unwinding the DNA # joining the two DNA strands # synthesis of a complementary strand
- C. Unwinding the DNA # synthesis of a complementary strand # joining the two DNA strands
- D. Synthesis of a complementary strand # unwinding the DNA # joining the two DNA strands

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 14

Cells use ATP to power muscle contraction. During contraction, ATP is converted to ADP and inorganic phosphate. What is happening to energy in this conversion?

- A. Energy is being released.
- B. Energy is being stored.
- C. Energy is being destroyed.
- D. Energy is being created.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 15

A student notes that club mosses form an outgroup, while ferns, gymnosperms, and flowering plants form an ingroup on a plant cladogram (algal ancestor at the base). Which branching point is the student considering?

- A. Embryo protection
- B. Leaves with branching veins
- C. Seeds
- D. Vascular tissue

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 16

Which comparison of DNA and RNA is correct?

- A. DNA uses uracil; RNA uses thymine.
- B. DNA is single-stranded; RNA is double-stranded.
- C. DNA is a monomer; RNA is a polymer.
- D. DNA stores hereditary information; RNA is used to make proteins.

Answer: D ([LEAVE A REPLY](#))

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NEW QUESTION: 17

Thailand's rainforest area has decreased since the 1960s due to logging and land clearing for agriculture.

Which activity would continue to have a negative effect on biodiversity?

- A. Increasing the use of renewable energy sources
- B. Developing technologies that reduce chemical pollutants
- C. Increasing the use of sustainable technologies in Thailand
- D. Increasing the human population in Thailand

Answer: (SHOW ANSWER)

NEW QUESTION: 18

Rabbit populations rise and fall over 8-10 years; wolf populations in the same area follow with a ~2-year lag.

What is the relationship between wolves and rabbits?

- A. Mutualism
- B. Competition
- C. Symbiosis
- D. Predator-prey

Answer: D (LEAVE A REPLY)

NEW QUESTION: 19

Which molecule is an input to the light-dependent reactions of photosynthesis?

- A. Carbon dioxide
- B. Sugar
- C. Oxygen
- D. Water

Answer: D (LEAVE A REPLY)

NEW QUESTION: 20

Cities near the ocean often have less temperature variation between winter and summer than inland cities.

Which property of water explains this observation?

- A. Temperature stability
- B. Density
- C. Good solvent
- D. Cohesion

Answer: A (LEAVE A REPLY)

NEW QUESTION: 21

Molecules with hydrophilic heads and hydrophobic tails form round structures with tails facing inward when placed in water. What role do such molecules play in a cell?

- A. Store genetic information
- B. Catalyze chemical reactions
- C. Store energy
- D. Form membranes

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 22

Which property of water is illustrated by insects walking on water?

- A. Cohesion
- B. Temperature stability
- C. Good solvent
- D. Change in density when frozen

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 23

A group of lions that preys on deer constitutes which ecological level?

- A. Community
- B. Population
- C. Biome
- D. Ecosystem

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 24

Which statement correctly describes the flow of information during gene expression?

- A. RNA is formed from protein, then DNA is formed from RNA
- B. DNA is formed from protein, then RNA is formed from DNA
- C. RNA is formed from DNA, then protein is formed from RNA
- D. DNA is formed from RNA, then protein is formed from DNA

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 25

A cell is bounded by a cell wall and has an organelle that performs photosynthesis. Which type of eukaryotic cell and organelle are described?

- A. Both plant and animal; mitochondria
- B. Animal; Golgi apparatus
- C. Plant; chloroplast
- D. Animal; ribosome

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 26

A molecule does not dissolve in water and consists of glycerol covalently bound to three fatty acid tails.

What is the primary function of this molecule?

- A. Genetic information storage
- B. Catalysis of chemical reactions
- C. Energy storage
- D. Cell communication

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 27

Which chromosomal set shows an abnormality most commonly associated with agenetic disorder?

- A. XX
- B. Trisomy21
- C. Trisomy18
- D. XYY

Answer: ([SHOW ANSWER](#))

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