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مراجعة نهائية وفق الهيكل الوزاري منهج انسابير المسار المتقدم

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إعداد: أحمد الحداد

التواصل الاجتماعي بحسب الصف الخامس



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5

Mr. Ahmed Elhddad

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

{يَرْفَعِ اللَّهُ الَّذِينَ آمَنُوا مِنْكُمْ وَالَّذِينَ أُوتُوا الْعِلْمَ دَرَجَاتٍ}

الرؤية: تخريج أجيال على قدر من العلم والمعرفة

العلوم: هو العلم المختص بدراسة الكوكب وما يحويه ، فهل لك ان تتفكر في خلق الله؟؟

مراجعة نهائية هيكل الاختبار الوزاري 2024

" مادة العلوم "

الصف الخامس المتقدم - النخبة

الفصل الدراسي الثالث

إِعْدَادِ الْأُسْتَاذِ

أَحْمَدِ الْحِدَادِ

<https://www.tiktok.com/@ahmedgelhddad? t=8cUImlhAtB1& r=1>

<https://www.youtube.com/channel/UCgRfDuwis7SA-OKyisibRwg>

<https://www.facebook.com/profile.php?id=100092037146817&mibextid=LQJ4d9>

(أستاذ الأحياء - العلوم الأول)



Part (1) Multiple Choice

Q1.) ____ is the evaporation of water from a plant's leaves.



- a. transpiration
- b. storage
- c. water absorption
- d. nutrient evaporation

Q2. Select the factor that is NOT abiotic.

- a. rocks
- b. air
- c. animals
- d. water

Q3. Explain the role of decomposers in an ecosystem.



- a. Decomposers are organisms that consume only plant material.
- b. Decomposers are organisms that break down plant and animal matter.
- c. Decomposers are organisms that are introduced to a new ecosystem and cause harm to it.
- d. Decomposers are organisms that are able to produce their own food.

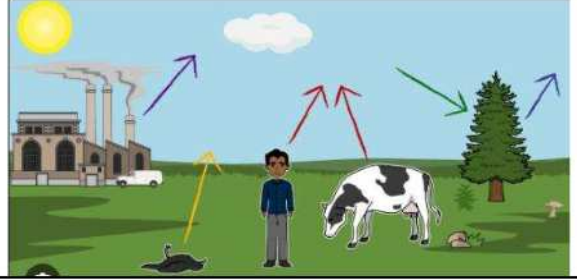
Q4. Read the sentence below. Then, infer which of Earth's systems are interacting:

The heavy floods eroded the riverbank.



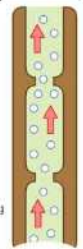
- a. hydrosphere and atmosphere
- b. atmosphere and geosphere
- c. geosphere and biosphere
- d. hydrosphere and geosphere

Q5. All living things use energy and release gas as a waste product. Identify the cycle that explains the circulation of these gases?



- a. Water cycle
- b. Oxygen-carbon cycle
- c. Nitrogen cycle
- d. Hydrogen cycle

Q6. Name the tissue responsible for the transport of water and nutrients from the roots to all parts of the plant.



- a. phloem
- b. stomata
- c. xylem
- d. guard cells

Q7. Predict what would happen to the population of rabbits if the fox population in a forest ecosystem increased?



- a. It would decrease.
- b. It would stay the same.
- c. It would increase.
- d. Only the fox population will be affected.

Q8. Clarify how decomposers help humans manage the amount of food waste they produce?



- a. Decomposers help food to ripen.
- b. Decomposers help to break down food waste, like in compost heaps.
- c. Decomposers cause food to get moldy.
- d. Decomposers absorb the water in food waste.

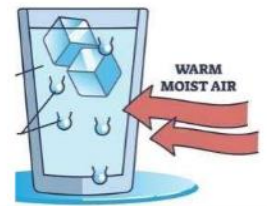
Mr. Ahmed Elhddad

Q9. Suggest what happens when water evaporates from a puddle on the street.



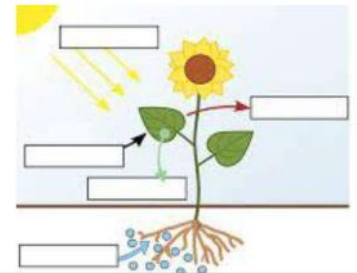
- a. It is absorbed by the biosphere.
- b. It flows into a nearby stream or river.
- c. It sinks into the geosphere.
- d. It rises into the atmosphere.

Q10. Provide the correct definition for the part of the water cycle in which water vapor gas changes to a liquid.



- a. transpiration
- b. condensation
- c. runoff
- d. evaporation

Q11. Choose the material used by plants to make food that can be found in the air?



- a. carbon dioxide
- b. oxygen
- c. nitrogen
- d. nutrients

Q12. Describe the role of predators in an ecosystem.



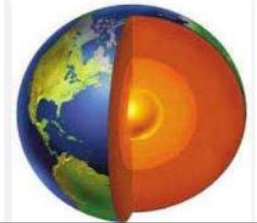
- a. Predators are herbivores.
- b. They increase the size of prey populations.
- c. They help control the size of prey populations.
- d. Predators do not have a role in an ecosystem.

Q13. How would you differentiate between fungi and plants?



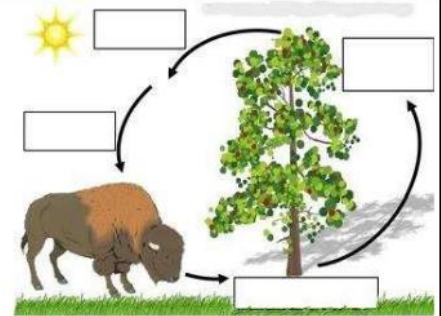
- a. Fungi are producers and plants are consumers.
- b. Fungi are herbivores and plants are omnivores.
- c. Plants are producers and fungi are consumers.
- d. Plants are herbivores and fungi are omnivores.

Q14. Which list best describes the components of the geosphere?



- a. nitrogen, oxygen, water vapor, carbon dioxide and other gases
- b. solid rock, molten rock, soil, landforms
- c. water in all three states
- d. plants, animals, humans, decomposers

Q15. Compare the intake and release of gases by producers and animals.



- a. Animals take in carbon dioxide and release oxygen. Producers take in oxygen and release carbon dioxide.
- b. Producers take in nitrogen and release oxygen. Animals take in oxygen and release nitrogen.
- c. Producers take in hydrogen and release nitrogen. Animals take in nitrogen and release oxygen.
- d. Producers take in carbon dioxide and release oxygen. Animals take in oxygen and release carbon dioxide.

Q16. What would the result be if plants grow too close together?



- a. The plants would compete for the same resources.
- b. The plants would grow quickly.
- c. The plants would receive more sunlight.
- d. The plants' growth would not be affected.

Q17. Predict the outcome if the prey population in an ecosystem increased.



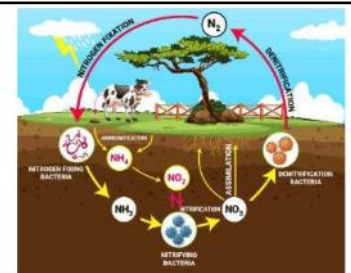
- a. The producer population will not be affected.
- b. The producer population will decrease.
- c. The number of decomposers will increase.
- d. The producer population will increase.

Q18. Describe what would happen when an invasive species is introduced into an ecosystem.



- a. They do not affect any part of the ecosystem.
- b. They affect the amount of matter in an ecosystem.
- c. They can harm the environment, the economy and even human health.
- d. They affect the amount of energy in an ecosystem.

Q19. Air is made up of 78% nitrogen, but few living things can use nitrogen gas. Select a suitable explanation for how nitrogen is made available to living things.



- a. Nitrogen gas is produced during photosynthesis.
- b. Living things do not need nitrogen to survive.
- c. Nitrogen gas is fixed and then absorbed by plants. When animals eat plants, they take in nitrogen stored in plants.
- d. Nitrogen gas condenses and is then absorbed by living things.

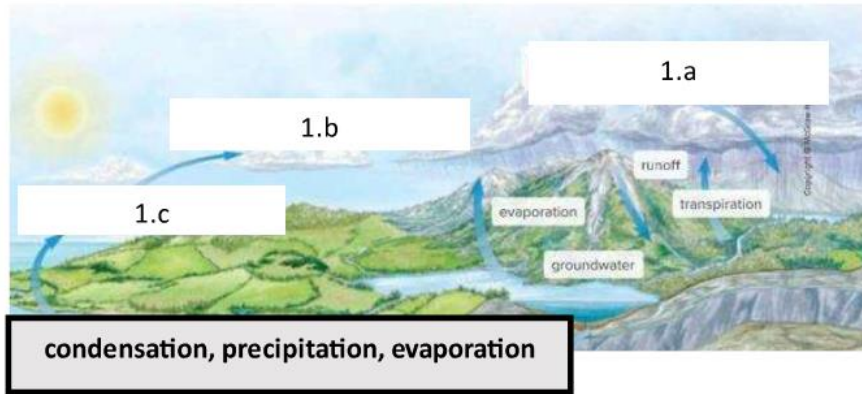
Q20. How could you identify whether a consumer is an omnivore?



- a. It would consume both plants and animals.
- b. It would consume plants only.
- c. It would consume animals only.
- d. It would consume prey only.

Part (2): Writing Questions

Q1. Study the image below to answer the questions that follow.



a. Label 1a, 1b and 1c selecting from the words found in the box above.

Q2. Study the image below and answer the questions:

2.a Identify the process demonstrated in the above image:

.....

2.b Name the gas used during this process:

.....

2.c Name the gas released after the process:

.....



Q3. Use the image below to answer the questions:

3a. List one factor from this ecosystem that is part of the geosphere:

.....

3b. List one factor from this ecosystem that is part of the biosphere:

.....

3c. List one solid form of the hydrosphere that you can observe in the image:

.....



Q4. The table shows the average annual rainfall in California. Use the data in the table and the map, to answer the questions.

4a. Which city experienced the highest rainfall?.....

4b. Which city experienced the lowest rainfall?.....

4c. Compare the rainfall in the northern and southern parts of the state:

.....

.....

.....

City	Annual Rainfall Averages from 1981-2010
Sacramento	470 mm (18.5 in)
San Francisco	601 mm (23.7 in)
Fresno	292 mm (11.5 in)
Los Angeles	379 mm (14.9 in)
San Bernardino	407 mm (16.0 in)
San Diego	263 mm (10.3 in)



Q5. Study the image and answer the questions based on it.

5a. Identify two biotic factors in the image:

5b. Describe the relationship between the two animals in the image:

5c. Write down the type of consumer that each animal represents.

Cheetah (.....) & The deer (.....)



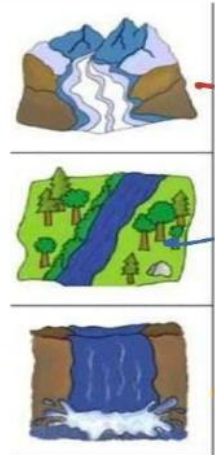
Q6. Khaled is observing a lake. He wonders how the water in the lake is included in the water cycle. Place the stages of the water cycle in order:

- () Large water droplets fall to the ground from the clouds.
- () Water vapor cools and condenses on dust particles forming clouds.
- () Energy from the sun causes the water in the lake to evaporate. Water droplets combine in the clouds to form larger droplets.



Q7. Explain three ways in which the hydrosphere interacts with the geosphere:

- 7a:
- 7b:
- 7c:

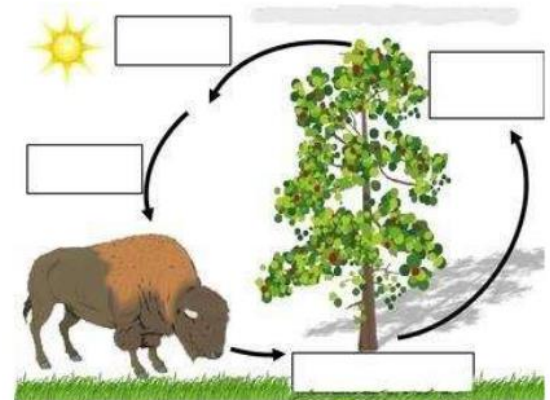


Q8. Study the image below before answering the questions:

8a. Identify the gases circulated in this cycle:

8b. Name the gas that plants release during photosynthesis?

8c. Provide the name of the gas that animals release which is required for photosynthesis :.....



Q9. The image below shows Earth's major systems.



9a. One of the Earth's system that represent all of Earth's living things :.....

9b. All of Earth's liquid, solid and gaseous water makes up the:

9c. The layer of gases surrounding Earth is called the:

Q10. An organism that is introduced to a new ecosystem and causes harm is an invasive species.



10a. Identify the invasive species shown in the image above:

10b. Explain why this species was introduced to Australia in the 1930's:

.....

10c. Describe one way in which this species caused harm to the ecosystem:

.....

Q1. ----- is the evaporation of water from a plant's leaves

a. Transpiration

b. Storage

c. Water absorption

d. Nutrient evaporation

Q2. The main job of the -----is to take in nutrients and water from the soil.

a. Leaf

b. Stem

c. Root

d. Flower

Q3. An animal who hunts and kills its own food is called a(n) _____.

a. predator

b. scavenger

c. producer

d. omnivore



Q4. Which of the following is not an abiotic factor?

- a. rocks
- b. air
- c. animals
- d. water

Q5. How do decomposers help plants?

- a. They help with photosynthesis.
- b. They enrich the soil.
- c. They provide oxygen.
- d. They hold water

Q6. Energy and other materials from dead organisms are recycled back into the soil by -----

- a. producers
- b. herbivores
- c. omnivores
- d. decomposers

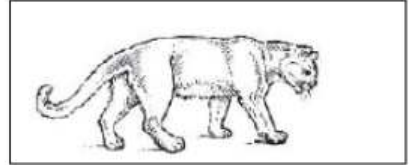
Q7. Which of Earth's systems interact with each other?

- a. geosphere and hydrosphere only
- b. hydrosphere and atmosphere only
- c. atmosphere and biosphere only
- d. All of Earth's systems interact with each other.

Q8. Which of the following materials used by plants to make food can be found in the air?

- a. pollen
- b. soil
- c. oxygen
- d. carbon dioxide

Q9. This animal is a predator.
If a predator is removed from an ecosystem, then _____.



- a. the population of predators will likely increase
- b. the population of prey will increase.
- c. the population of prey will decrease.
- d. the population of predators will not be affected.

Q10. Where does the water go when water evaporates from a puddle on the street?

- a. It goes into a nearby river or stream.
- b. It sinks into the street.
- c. It rises into the atmosphere.
- d. It goes into outer space.

Q11. Which of these activities is an example of you interacting with the geosphere?

- a. rock climbing
- b. swimming
- c. riding in an airplane
- d. sailing

Q12. People can help nature recycle plant material by composting. People use compost in their gardens. How does placing compost in your garden improve the natural environment?

- a. It makes the soil harder.
- b. It makes the soil unusable.
- c. It helps keep insects away.
- d. It makes the soil rich in nutrients

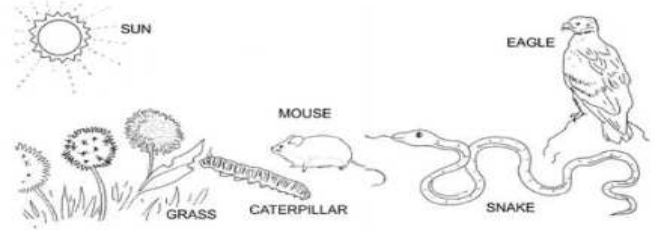
Q13. All living things use energy and release gas as a waste product. What cycle explains the circulation of these gases?

- a. Water cycle
- b. Oxygen-Carbon cycle
- c. Nitrogen cycle
- d. Hydrogen cycle

Q14. Which part of the water cycle includes water vapor gas changing to a liquid?

- a. condensation
- b. evaporation
- c. precipitation
- d. transpiration

Q15. The picture shows living things in an ecosystem. Which organism is a producer?



- a. Mouse
- b. Eagle
- c. Grass
- d. caterpillar

Q16. How do animals get nitrogen that is stored in the soil?

- a. Animals do not take in the nitrogen stored in the soil.
- b. Bacteria change the nitrogen into a gas that the animals breathe.
- c. Plants absorb the nitrogen from the soil and animals can eat the plants.
- d. The animals can eat the soil and absorb the nitrogen through their digestive system.

Q17.

Mr. Ahmad's science class learned that green plants use sunlight, water, and carbon dioxide. to make their own food and release oxygen in the process. How can the class explain how animals complete the oxygen-carbon cycle.

- a. Animals take in the oxygen, but do not release gas as they use energy.
- b. Animals take in carbon dioxide and use it to make food.
- c. Animals take in oxygen and release nitrogen as waste.
- d. Animals take in oxygen and as they use energy, carbon dioxide is released as waste.

Q18. Plants cannot grow close to each other; because their ____ need to spread out and absorb nutrients from the soil.

- a. stems
- b. roots
- c. petals
- d. xylems

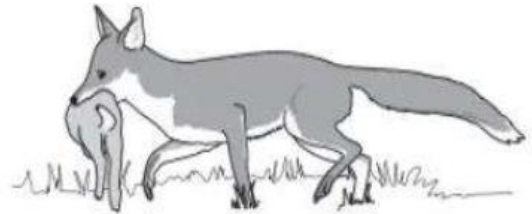
Q19. How do decomposers help plants?

- a. They help with photosynthesis.
- b. They enrich the soil.
- c. They provide oxygen.
- d. They hold water.

Q20. Which of the following is not part of Earth's geosphere?

- a. mountains
- b. soil
- c. rivers
- d. volcanoes

Q1. A fox and a rabbit are an example for predator – prey interaction.



a. Define the predator in this case.

b. How the population of foxes change if the population of rabbits decreased.

c. What happens if the plant population in the forest decreased?

Q2.

Mr. Ahmed was conducting an experiment to study the effect of various factors on plant survival. He used two similar plants to conduct the experiment. He took one plant, set the light and air to high, and water to 40 mL. On the other plant, set the light and air to high but set the water to 0 mL and then 20 mL.

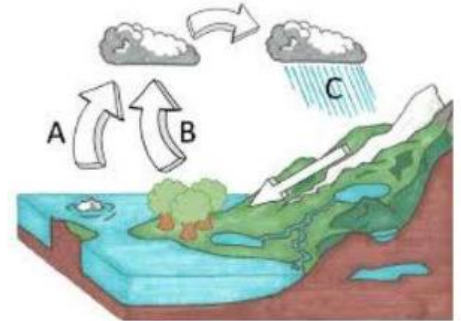


a. Which plant shows most growth?.....

b. What is/ are the factor(s) that affect plant growth?.....

c. What happens when you set all plants to the same setting but vary the amount of light?

Q3. The picture shown below is a diagram of water cycle.



a. Identify the processes in stage C:

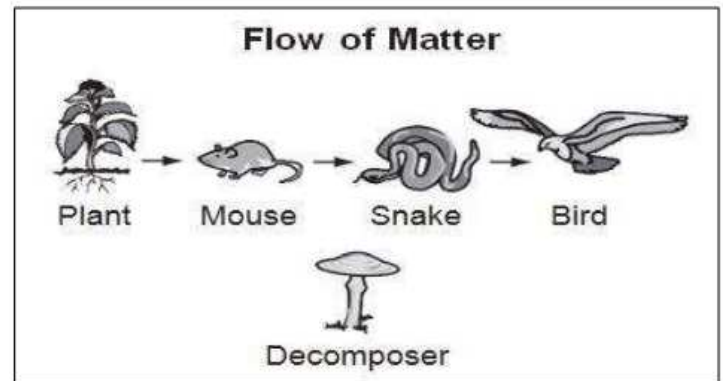
.....

b. Write the name of any two types of precipitation:.....

c. Number the following stages in water cycle according to their correct order

- Water droplets combine in the clouds to form larger droplets.
- Water vapor cools and **condenses** on dust particles forming clouds.
- Large water droplets **fall to the ground** from the clouds.
- Energy from the sun causes the water in the lake to evaporate.

Q4. The diagram is an incomplete model of the flow of matter in an ecosystem.



a. Identify the producer in this ecosystem:

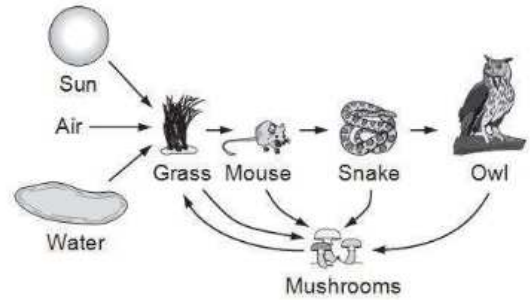
.....

b. Describe where arrows need to be added to complete the model: draw the arrow(s) in the diagram.

c. Explain your answer in part b:

.....

Q5 Mrs. Ali's class created this diagram as a model of an ecosystem.



- a. Name the decomposer in this ecosystem:
- b. Name any two abiotic factors in this ecosystem:
- c. Predict how the ecosystem would be affected if the decomposers shown in the model die:
.....
.....

Q6. The given picture shows the structure of a plant.



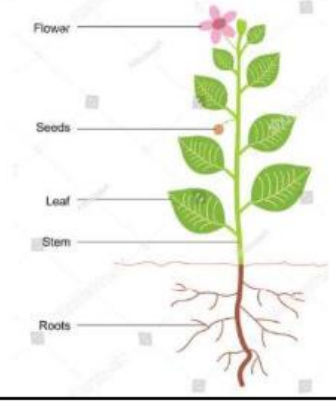
- a. Which part of the plant body helps in producing food:
- b. What is the name of the gas used for photosynthesis?.....
- c. How do the plants remove excess water from their body? What is the name of the process?
.....
.....

Q7. Decomposers help the ecosystem in many ways.



- a. Write an example of decomposers:.....
- b. How do the decomposer help the ecosystem (Two points needed):
1.
2.
- c. Ahmed says the fungi and mouse are decomposers. Do you agree with him? Explain
.....
.....

Q8. Plants produce their food in their leaves.



- a. What is the name of the process by which plants make their own food:
- b. What is the source of energy that plants use to make their own food?
- c. How does the plant take ground water from soil?

Q9. There are many systems in an ecosystem.



- biosphere
- atmosphere
- hydrosphere
- geosphere

- a. Which system in ecosystem consists of rocks and mountains?.....
- b. Complete the diagram by using the word bank.
- c. How does the hydrosphere interact with the geosphere?

.....

.....

Q10. Oxygen-carbon cycle is very important to keep the balance in ecosystem.



- a. Which gas is taken in by animals from the atmosphere?.....
- b. How does the plants and animals help each other in Oxygen -Carbon cycle?

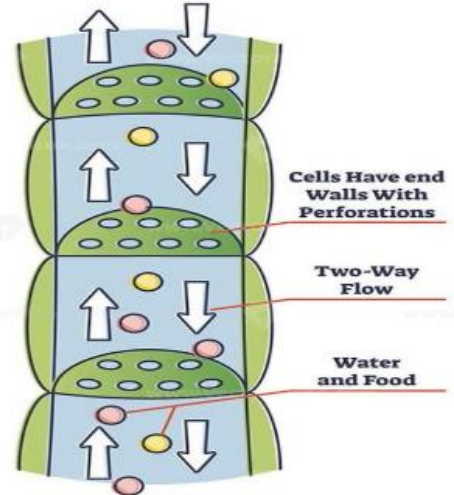
.....

.....

- c. Give an example for an activity that release carbon dioxide to atmosphere:

.....

Q1. What plant structure transfers sugars throughout the plant?



- a. Phloem
- b. Transpiration
- c. Xylem
- d. Stomata

Q2. E What is the function of the leaves?



- a. To make food for the plant.
- b. To transport water and minerals through the plant.
- c. To reproduce and make seeds.
- d. To bring water and minerals from the soil into the plant.

Q3. The adjacent figure shows bacteria which type in the ecosystem do most bacteria belong to?



- a. Consumer
- b. Producer
- c. Decomposer
- d. Omnivores

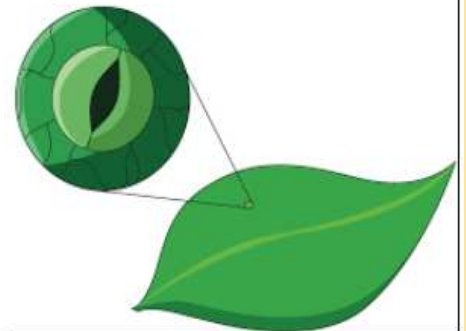
Q4. which of the following define where the living organisms interact with nonliving thing in the environment.?

- a. Niche
- b. Habitat
- c. Ecosystem
- d. Abiotic factors

Q5. what are plants need to product oxygen and sugar in the plant leaves in presence of light energy?

- a. Oxygen and nitrogen
- b. Water and carbon dioxide
- c. Nitrogen and oxygen
- d. Sugar and nitrogen

Q6. which of the following best defines tiny opening of underside the most leaves that allow air to enter?



- a. Stomata
- b. Xylem
- c. Roots
- d. Phloem

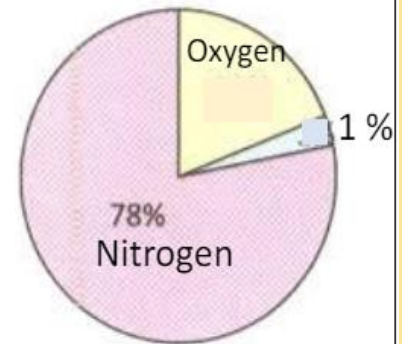
Q7. A type of locust was eating crops in Egypt and caused harm. Which of the following best defines an organism that causes harm?



- a. Carnivores
- b. Invasive species
- c. Prey
- d. Decomposers

Q8. M-D

What is the percentage (%) of Oxygen in the air?



- a. 21 %
- b. 78 %
- c. 100 %
- d. 50 %

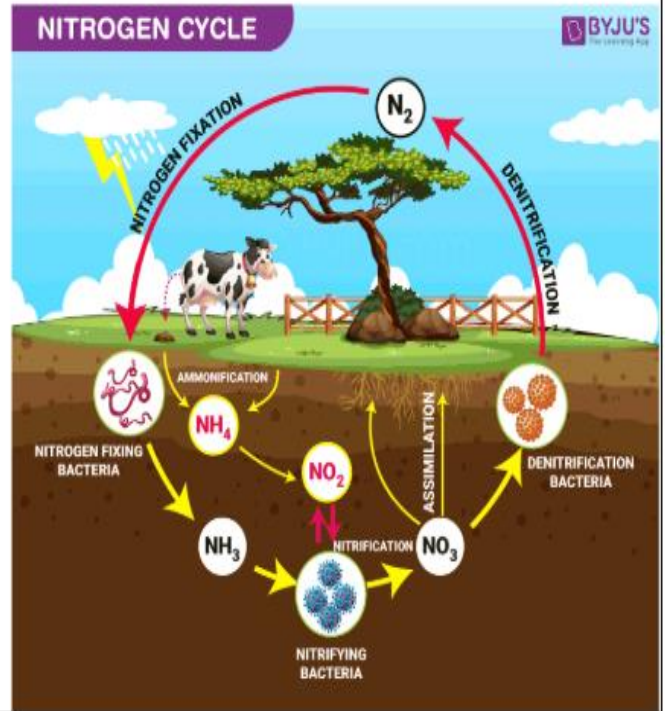
Q9.

Where does water vapor go when water evaporate from leaves of plants ?

- a. It sinks into the geosphere .
- b. It rises to the atmosphere.
- c. It goes into other living things.
- d. It goes into ocean .

Q10.E-M

which of the following responsible cycling nitrogen into atmosphere?



- a. Producer
- b. Consumer
- c. Decomposer
- d. Fungi

Q11.

which of the following the niche of bacteria that live in the roots ?



- a. Bacteria that change nitrogen gas into a form plants can use.
- b. Bacteria that change carbon dioxide gas into a form plants can use.
- c. Bacteria that change oxygen gas into a form plants can use.
- d. Bacteria that change water vapor into a form plants can use.

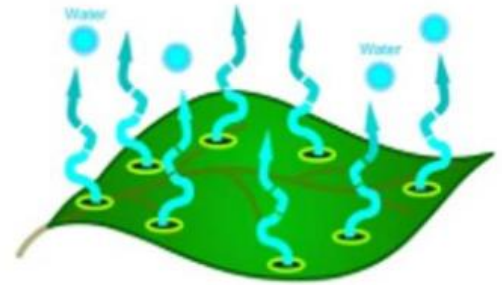
Q12.E-M

Which of the following considered a waste product in the plants?

- a. Magnesium and oxygen
- b. Sulfur and carbon dioxide
- c. Oxygen and sugar
- d. Carbon dioxide and water

Q13.M

which of the following best define of evaporation water from the plant's leaves ?



- a. Absorption
- b. Transportation
- c. Photosynth
- d. Transpiration

Q14.M

When volcanoes erupt, dust and ash particles spread through much of the air blocking the sun. Which two spheres are interacting?



- a. Hydrosphere and atmosphere
- b. Geosphere and atmosphere
- c. Biosphere and atmosphere
- d. Atmosphere and atmosphere

Q15.M

While hiking through a nearby forest, you find some fungi growing on a tree stump.

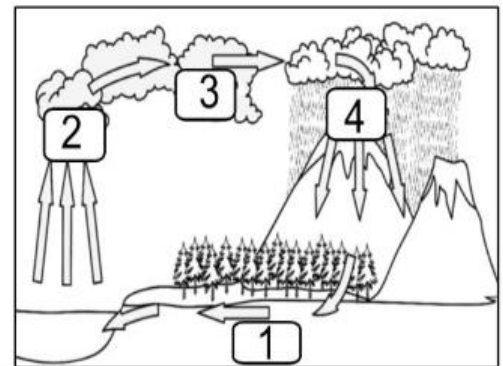


What role does the fungi play in this forest ecosystem?

- a. It breaks down dead tree matter.
- b. It eats living organisms and their wastes.
- c. It uses sunlight to produce energy for the tree.
- d. It produces oxygen that other forest organisms use to survive.

Q16.M-D

Which stage does the #2 show in the diagram?



- a. condensation
- b. evaporation
- c. precipitation
- d. run off

Q17.D

Which statement is true about the carbon dioxide-oxygen cycle?

- a. animals breathe in nitrogen and release oxygen which is used by plants
- b. animals breathe in oxygen and release carbon dioxide which is used by plants
- c. animals breathe in nitrogen and release carbon dioxide which is used by plants
- d. animals breathe in carbon dioxide and release oxygen which is used by plants

Q18.E-M

the continuous movement of water between earth's surface and the air, changing from liquid into gas into liquid

- a. Oxygen Carbon Cycle
- b. Nitrogen Cycle
- c. Oxygen Cycle
- d. Water Cycle

Q19.E

Which of following could increase the amount of carbon dioxide in the air.

- a. Building more houses
- b. Burning more oil
- c. Increase of streets
- d. Planting more of trees

Q20.E

Which of the following does NOT belong in the atmosphere?

- a. Rain
- b. Winds
- c. Clouds
- d. Oxygen

Q1.E

Answer about next question about plants need :



1.a A substance found in the soil that plants need to live , grow and stay healthy is called

1.b which is plant vascular tissue that transport water and dissolved minerals from the roots to the rest of the plant?

1.c What Happens if Plants Are Planted Too Close Together?

.....

Q2.E-M

look for next image then answer :



2.a write two examples of abiotic factors : and

2.b the place where living thing live is called

2.explain why this place is consider ecosystem ?

.....

Q3.E-M

Latifa did this experiment and following table show the results of an experiment .

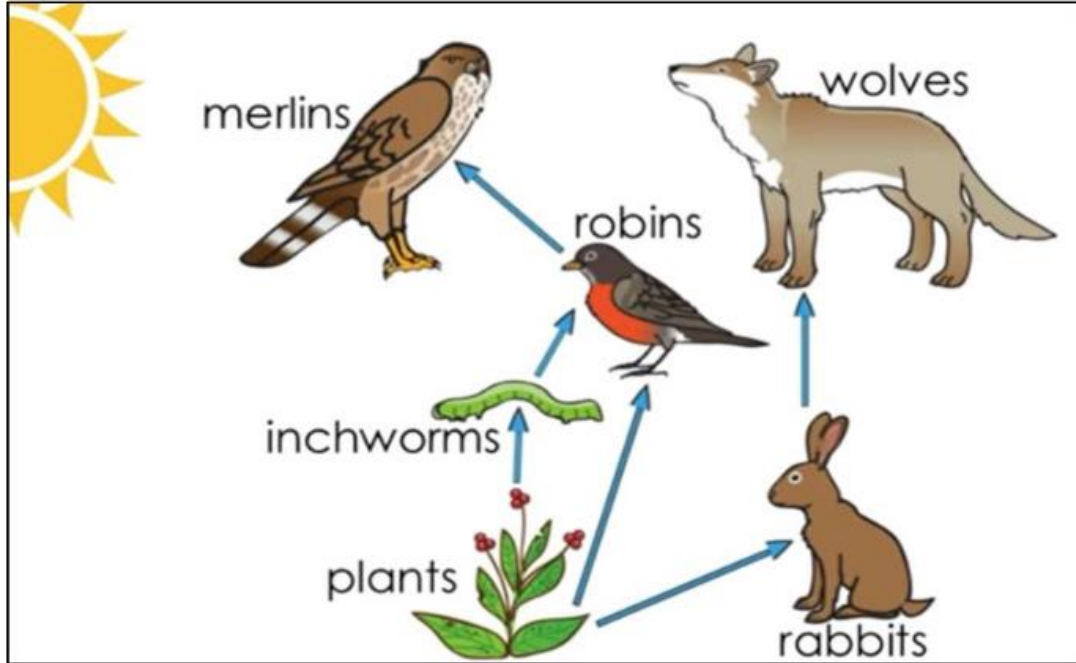
Length of plant at days	Plant 1	Plant 2	Plant 3
Amount of light each day	No light	3 hour	6 hour
Length of plant at 1 day (Cm)	0	0	0
Length of plant day 7 (Cm)	1	3	5
Length of plant at 14 day (Cm)	3	5	9
Length of plant at 21 day (Cm)	5	7	13

3a. Aim of this experiment is studying effect of the growth of plant .

3b. what is length of plant 2 at 14 day ? cm .

3c. does the light effect of growth of plant ? yes or no

Q4.M Look for picture then answer



4a. Which of the following is a herbivore?.....

4b. Which of the following is a omnivores ?.....

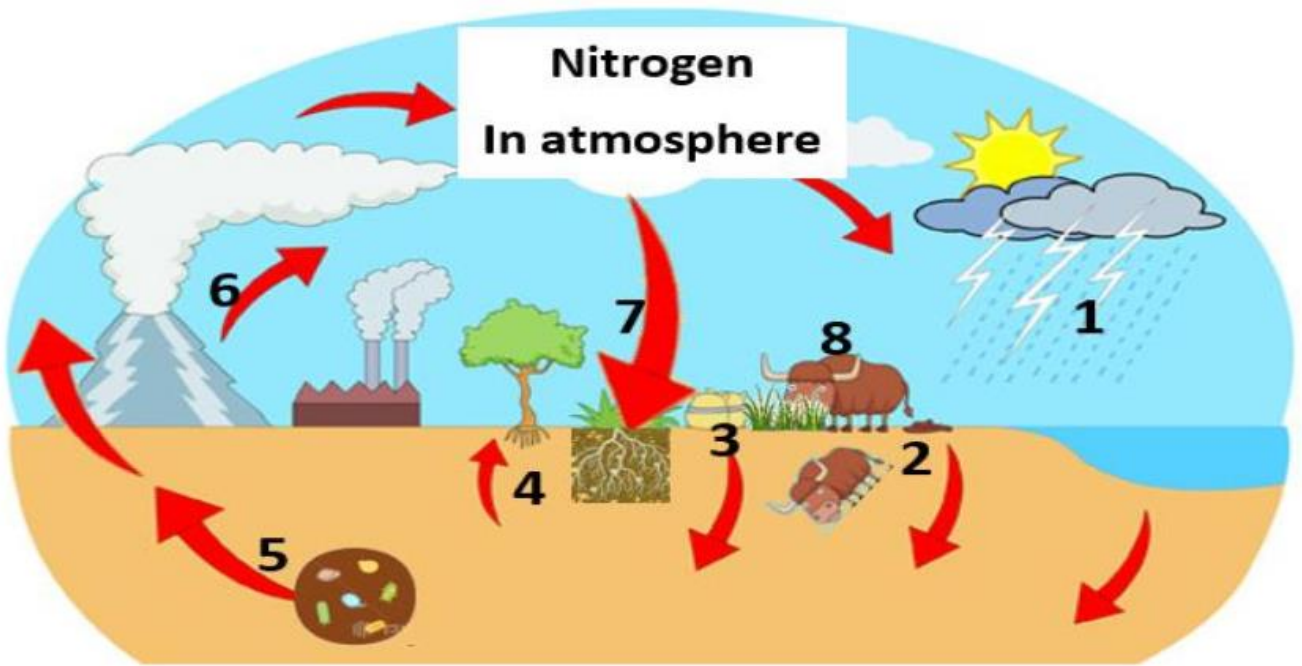
4c. what will happen if rabbit is increase ?

.....

Q5.M-D

Choose the correct word to complete the next sentence

Decay – bacteria – atmosphere – fix



5a.Step 1: Lightning can nitrogen in soil.

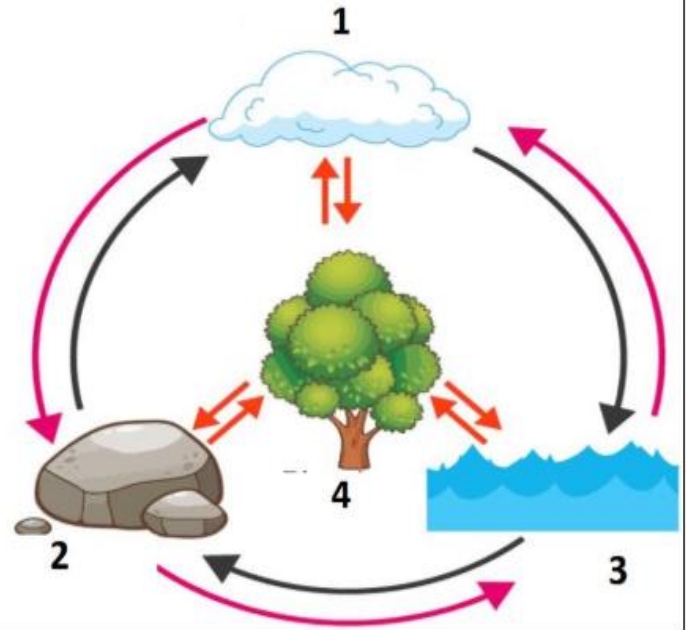
5b.Step 2 : Waste and dead animal will by decomposer.

5c.Explain step number 5 ?

.....

Q6.M-D

look for following diagram then answer :



6a. what is name earth's system which refer by 2 number ?

.....

6a. what is name earth's system which refer by 4 number ?

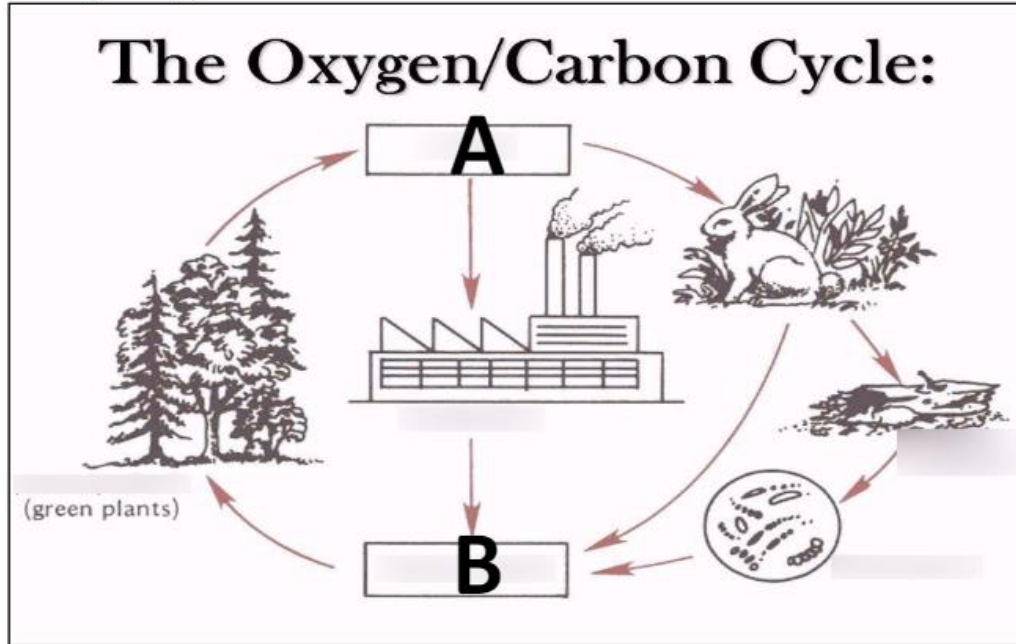
.....

6c. When wind move sediments , the interaction is between the

.....and the

Q7.M-D

look for following diagram then answer



7a. letter A is

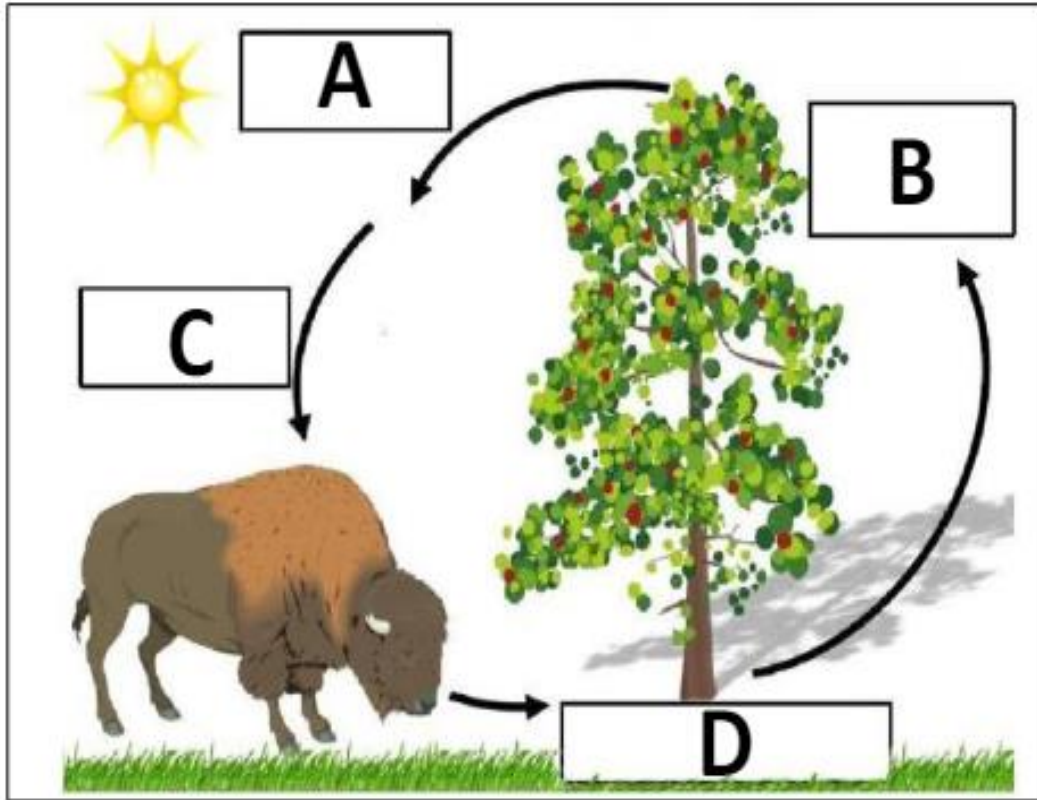
7b. letter B is

7c. factories amount of carbon dioxide into atmosphere .

- A. Increase
- B. Decrease

Q8.E

look for following diagram then
Write the letter



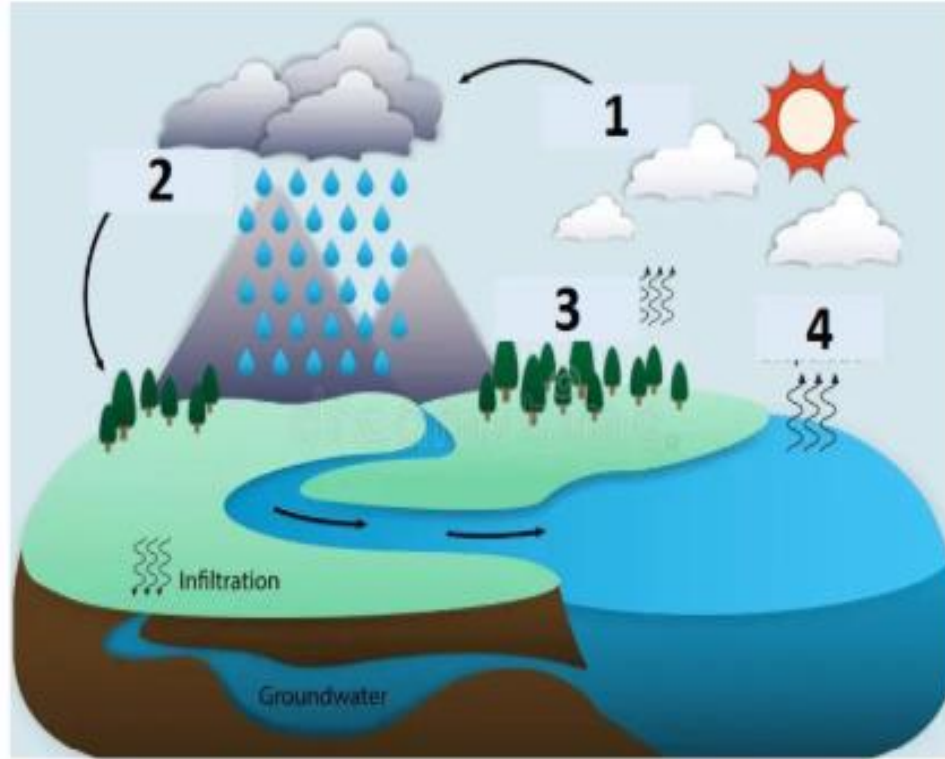
8a. letter refer to animal breath out carbon dioxide .

8b. letter refer to plant absorb carbon dioxide .

8c. letter refer to plant release oxygen gas .

Q9.D

look for following water cycle diagram then answer :



9a. number refer to condensation process .

9b. number refer to transpiration process .

9c. precipitation process refer by number

Q10.D

look for following picture then answer about next question :



10a. hydrosphere system is all solid or liquid of On earth .

10b. percentage of hydrosphere % of earth surface .

10c.give two example of freshwater recourses :

..... And

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05 /2024