

# Science Department

## Mock Exam

**Term 3 - 2024/2025**

**Grade: 5 (MCQ)**

School Name: **Al Salamat School, 241**

Levels (Bloom's Taxonomy)	Difficulty level	Symbol	Percentage
Remember	Easy- Medium	E,M	20
Understand	Easy- Medium	E,M	20
Apply	Easy- Medium-Difficult	E, M, D	20
Analyze	Easy- Medium-Difficult	E, M, D	20
Evaluate	Difficult	D	10
Create	Difficult	D	10

## Part 1

### 20 Questions- Multiple choice

Q1. E

Which of the following are located on a plant's leaves?

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

Q2. E

The part of the Earth where all living things are found is called the \_\_\_\_\_

- a. Geosphere
- b. Atmosphere
- c. Hydrosphere
- d. **Biosphere**

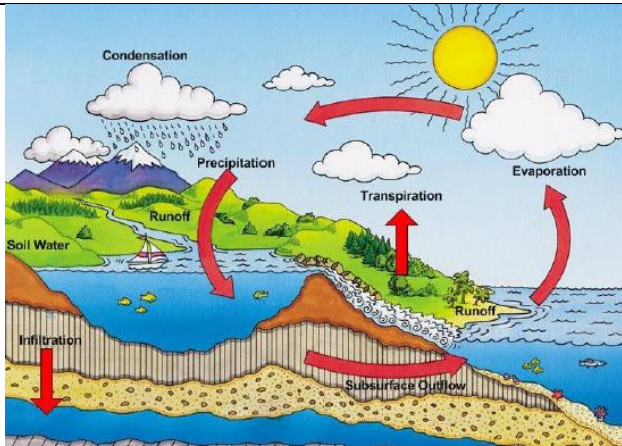
Q3.M

Decomposers are important to the health and balance of an ecosystem because they:

- a. Produce oxygen for living things
- b. **Break down plant and animal matter**
- c. Are food for plants
- d. Prey on overpopulated animals

Q4.M

Identify the part of the water cycle that includes water vapor changing into a liquid.



- |    |               |
|----|---------------|
| a. | Evaporation   |
| b. | Precipitation |
| c. | Condensation  |
| d. | Transpiration |

Q5.M

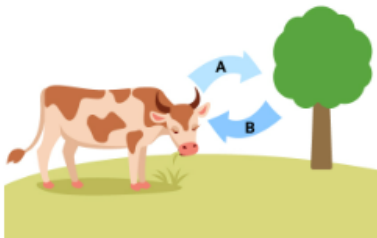
You open your fridge and find that the tomatoes and cucumber have started decomposing. What might be the reason?



- |    |   |
|----|---|
| a. | there is no oxygen in the fridge        |
| b. | the tomatoes and the cucumbers were dry |
| c. | the fridge is cooling enough            |
| d. | the fridge is not cooling enough        |

Q6.E-M

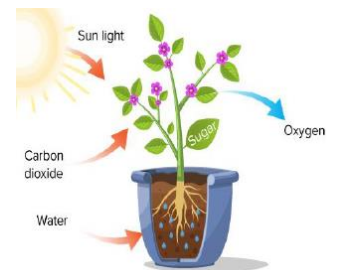
Which gases are represented by A and B?



a.	A- Carbon dioxide	B- Nitrogen
b.	A- Oxygen	B- Carbon dioxide
c.	A- Nitrogen	B- Oxygen
d.	<b>A- Carbon dioxide</b>	<b>B- Oxygen</b>

Q7.M-D

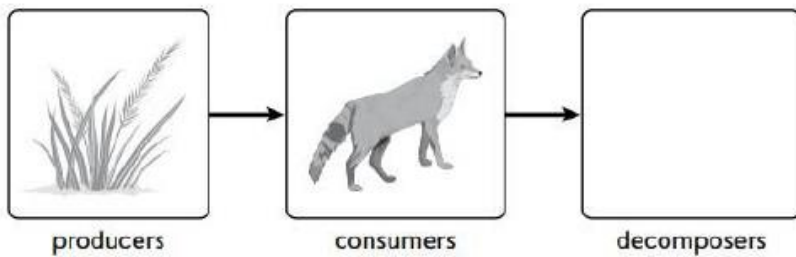
what are the products of combining water and carbon dioxide in the plant leaves in presence of light energy?



a.	Oxygen and nitrogen
b.	<b>Sugar and oxygen</b>
c.	Nitrogen and sugar
d.	Sugar and nitrogen

Q8.M-D

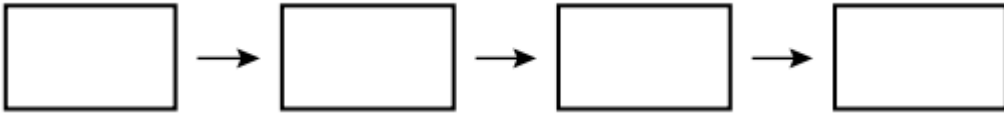
Which of the following organisms should be added to the diagram to represent a decomposer?



a.	Moss
b.	<b>Fungi</b>
c.	Prey
d.	Predator

Q9.D

The steps labeled W, X, Y and Z are about how decomposers affect the flow of matter in the desert ecosystem, but they are not in the correct order.



W: Plants take up nutrients from the soil.

X: The hawk dies

Y: Decomposers release nutrients into the soil

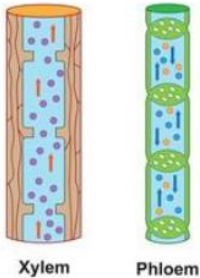
Z: Decomposers break down the hawk into nutrients

Which sequence of steps best completes the diagram?

- a. W, X, Y, Z
- b. W, Y, X, Z
- c. X, Y, Z, W
- d. X, Z, Y, W

Q10.E-M

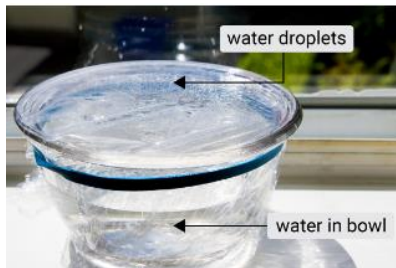
The adjacent figure shows xylem and phloem. Which of the following statements is correct?



- a. Phloem transports gases and xylem transports sugar to all parts of the plant
- b. Xylem transports sugar and phloem transports water to all parts of the plant
- c. Xylem transports water and phloem transports sugar to all parts of the plant.
- d. Phloem transports sugar and xylem transports gases to all parts of the plant

Q11.E-M

A glass bowl with water was sealed with plastic wrap and placed in a sunny spot. Water droplets formed by the process of \_\_\_\_\_



a. Precipitation

b. Transpiration

c. **Condensation**

d. Evaporation

Q12.E-M

What happens to the predator population, when the prey population increases?



a. It stays the same

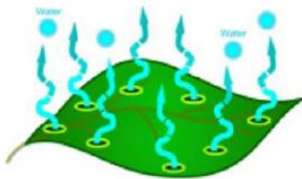
b. It decreases

c. Predators are not affected by prey

d. **It increases**

Q13.M

Which of the following best defines evaporation of water from the plant's leaves?



a. Absorption

b. Transportation

c. Photosynthesis

d.	<b>Transpiration</b>				
<p>Q14.M</p> <p>Abdullah used a microscope to count the number of stomata on the top and bottom of a leaf. His results are as follows</p> <table border="1"> <tr> <td>Side A</td><td>20 stomata</td></tr> <tr> <td>Side B</td><td>3 stomata</td></tr> </table> <p>Which of the following statements are True for his results.</p>		Side A	20 stomata	Side B	3 stomata
Side A	20 stomata				
Side B	3 stomata				
a.	Side A is the top side of the leaf				
b.	Side B is the bottom side of the leaf				
c.	There is not enough information to make a choice				
d.	<b>Side A is the bottom side of the leaf</b>				
<p>Q15.M</p> <p>Which of the following would you be doing if you are interacting with the geosphere?</p>					
a.	Swimming				
b.	Sailing				
c.	Flying in an airplane				
d.	<b>Rock climbing</b>				
<p>Q16.M-D</p> <p>In the nitrogen cycle, nitrogen cycles between _____</p>					
a.	The air and sunlight				
b.	Water and plants				
c.	<b>The air, organisms and the soil</b>				
d.	Rocks, air and the soil				

Q17.D

Which of the following the best explains the important of nodules on the roots?



- |    |  |
|----|--|
| a. | The nodules have amoeba that change nitrogen gas into a form plant can use           |
| b. | The nodules have fungi that change nitrogen gas into a form plant can use.           |
| c. | <b>The nodules have bacteria that change nitrogen gas into a form plant can use.</b> |
| d. | The nodules have algae that change nitrogen gas into a form plant can use            |

Q18.E-M

Look at the picture. Identify the best connection described by the picture.



- |    |                                |
|----|--------------------------------|
| a. | Atmosphere - Biosphere         |
| b. | Geosphere - Atmosphere         |
| c. | <b>Hydrosphere - Geosphere</b> |
| d. | Geosphere - Biosphere          |

Q19.E

How much of the Earth's atmosphere is composed of nitrogen gas?

- |    |            |
|----|------------|
| a. | 21%        |
| b. | <b>78%</b> |
| c. | 87%        |
| d. | 38%        |



**Q20.E**

**Which of the following is responsible for cycling oxygen into the atmosphere?**

<b>a.</b>	<b>Producer</b>
<b>b.</b>	<b>Decomposer</b>
<b>c.</b>	<b>Consumer</b>
<b>d.</b>	<b>Fungi</b>