

# Science Department

## Mock Exam

**Term 3 - 2023/2024**

**Grade: 5**

Copy Number (7)

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. What part of the plant soaks up nutrients from the ground?

- a. leaves
- b. stem
- c. roots
- d. Flower

Q2. The ability to do work or change somethings, is .....

- a. Sunlight
- b. Grow
- c. Energy
- d. Sugar

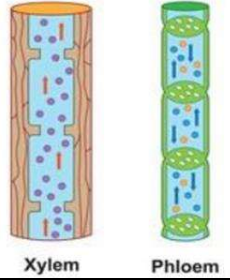
Q3. which of the following best defines tiny opening underside the most leaves that allow air to enter?

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

Q4. The plant tissue that carries food materials from the leaves to the rest of the plant is the .....

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

Q5. The adjacent figure shows xylem and phloem which of the following statements is correct?



- a. Phloem transports gases and xylem transports sugar.
- b. Xylem transports sugar and phloem transports water.
- c. Xylem transports water and phloem transports sugar.
- d. Phloem transports sugar and xylem transports gases.

Q6. Fatima noticed that there is a Mold grow on the Bread. Mold is an example of .....



- a. plants
- b. animals
- c. bacteria
- d. fungi

Q7. A type of beetle was eating sugar cane crops in Australia and caused harm. Which of the following best defines an organism that causes harm?

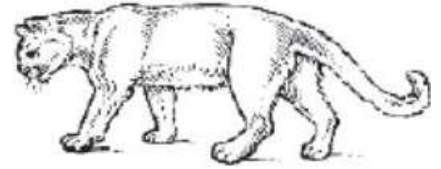


- a. Carnivores
- b. Invasive species
- c. Prey
- d. Decomposers

Q8. A(n) ..... is made up of all the living things and nonliving things in an environment.

- a. ecosystem
- b. Population
- c. Habitat
- d. Geosphere

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 predators will not be affected. |
| d. | the population of prey will decrease.             |

Q10. All the living things that live and interact in an environment are .....

- |    |         |
|----|---------|
| a. | Biotic  |
| b. | Niche   |
| c. | Abiotic |
| d. | Habitat |

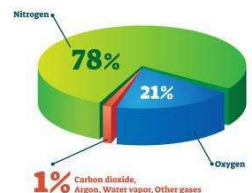
Q11. The process of breaking down matter from dead organisms into *simpler substances* is called:

- |    |               |
|----|---------------|
| a. | decomposer    |
| b. | deforestation |
| c. | respiration   |
| d. | decomposition |

Q12. A type of decomposer that is a single-cell organism.

- |    |           |
|----|-----------|
| a. | Fungi     |
| b. | bacteria  |
| c. | earthworm |
| d. | species   |

Q13. Air is mostly made of .....



- |    |                |
|----|----------------|
| a. | Nitrogen       |
| b. | Oxygen         |
| c. | Carbon dioxide |
| d. | Water vapor    |

**Q14.** Which of the following does **NOT** belong in the **hydrosphere**?

- a. Lakes
- b. Rivers
- c. Fish
- d. Ice cap

**Q15.** What is the **role** of a **decomposer** in an ecosystem?

- a. A. capture the energy of sunlight for plants to make food
- b. produce oxygen for plants and animals
- c. break down dead organisms and their wastes
- d. transport nutrients and other materials among organisms

**Q16.** The adjacent figure shows **earthworms** in the **soil** where the plant grows.  
*How can earthworms help this plant?*



- a. A. They cover the plant.
- b. They protect the plant.
- c. They make the soil healthy for the plant.
- d. They feed on the plant.

**Q17.** .....could **decrease** the amount of **carbon dioxide** in the air.

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

**Q18.** Which statement is true about the **carbon dioxide-oxygen cycle**?

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

Q19. excess water that flows over earth's surface from a storm or flood.

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

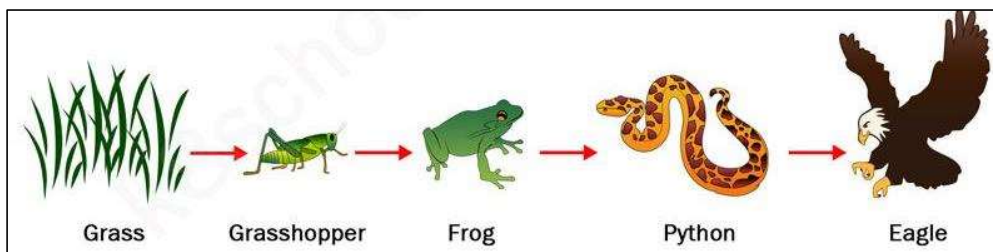
Q20. Which word best describes the role or job an organism has in an ecosystem.

- |    |             |
|----|-------------|
| a. | environment |
| b. | habitat     |
| c. | niche       |
| d. | ecosystem.  |

## Part 2

### 10 Questions- Written questions

Q1. The figure shows how living things interact with each other in an ecosystem.



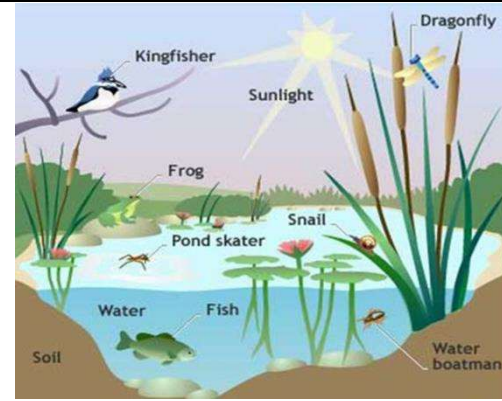
1. a ) Find the Following:

- The pray of the Frog is .....
- A carnivore : .....
- A herbivore : .....
- A consumer that is pray and predator: .....

1.b) Explain Why the Grass is a producer. Not a consumer?

1.c) If you know that the number of Python decreases, what will happen to the population of Frogs?

Q2. You are walking and reach a lake ecosystem.  
(Shown in the diagram)



2(a). Look at the diagram and fill in the table:

<u>Biotic factors</u>	<u>A biotic factors</u>
- .....	- .....
- .....	- .....

2(b). Complete the following:

- One of the producers in this ecosystem is .....
- The main source of energy is .....

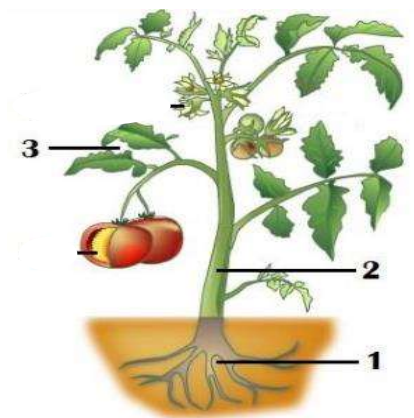
2(c ). If you sit on a rock and start fishing. Which Earth's systems interacts with each other?

.....

Q3. The figure shows a producer in an ecosystem.

3(a). look at the numbers and label the main parts of the plant:

1. .... 2. .... 3. ....



3(b). List the 3 things plants need to make their own food.

- .....
- .....
- .....

3c. Explain why it would be disadvantage if plants grow too close together?

.....

Q4. The picture shows The Earth's Major Systems.



4(a). The layer of gases including oxygen and nitrogen that surrounds the Earth is .....

4(b). All of Earth's liquid and solid water make up the .....

4(c). The part of Earth where all living things are found is called the .....

Q5. The picture shows that farmers use decomposers to make the soil healthy.



5(a). • What are the two types of decomposers:

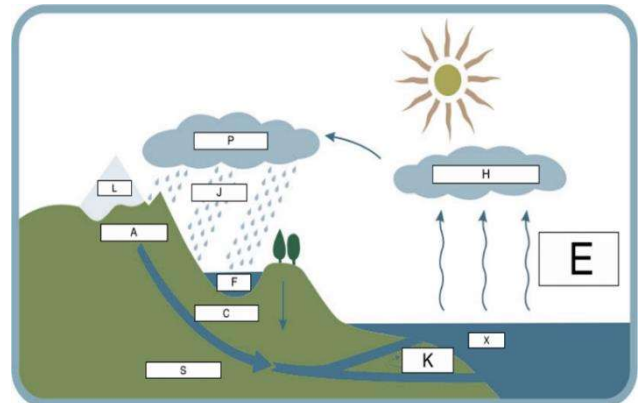
(A) .....

(B) .....

5(b). How do the decomposers help to keep the health and balance of an ecosystem?

5(c). Explain Why the decomposers are consumers, not producers?

Q6. Use the figure below to answer the following questions.  
The figure shows the water cycle.



6(a). Label the parts of the water cycle:

- ( E ) is .....

- ( H ) is .....

- ( J ) is .....

- ( A ) is .....

6(b). Where does the water go when water evaporates from a puddle on the street?

6(c). How do plants contribute in the water cycle?



Q7. The figure shows the nitrogen cycle.

7(a). How do animals get nitrogen that is stored in the soil?

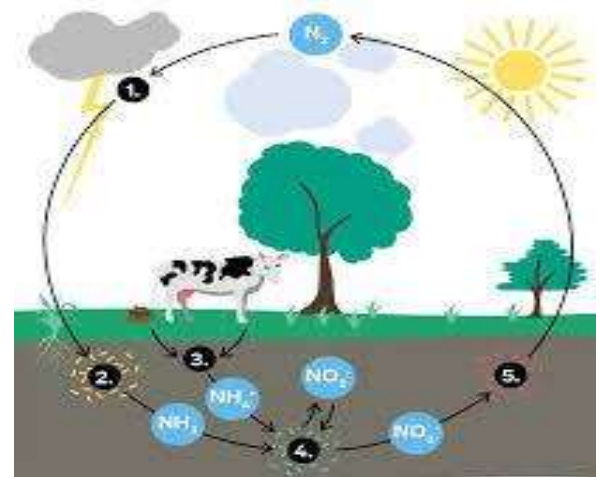
.....  
 .....  
 .....

7(b). Which organisms found on the roots of the plants, and help the plants to get the nitrogen?

.....  
 .....

7(c). Nitrogen can be fixed naturally by:

- .....
- .....
- .....



Q8. The figure shows the top 10 invasive species in Australia in the last 60 years.

Look at the figure and answer the following questions:

8(a). What types of harm can the invasive species causes?

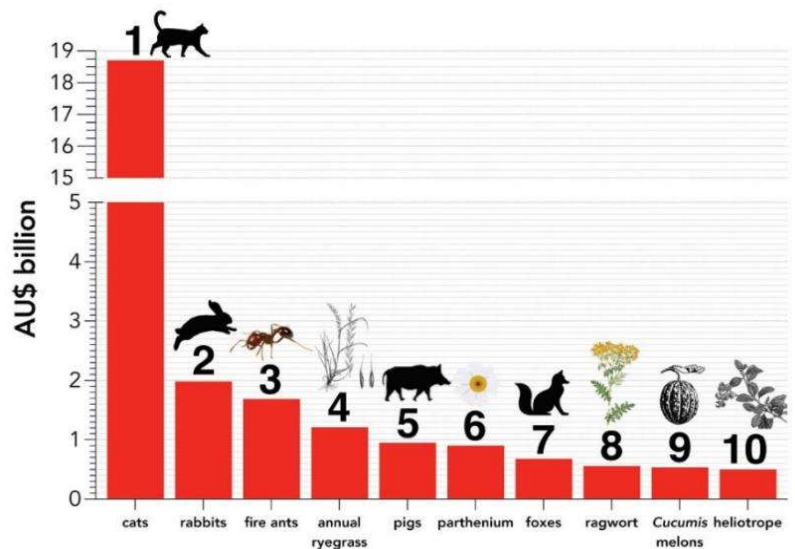
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 .....

8(b). Which invasive species causes the highest economy harm in Australia?

.....

8(c). Which invasive species cost 2 AU\$ billion?

.....



Q9. Use the figure below to answer the following questions.  
The picture show prey and predator relationship in grassland ecosystem.



9(a). Which one is the pray and which one is the predator?

- Loin is the .....
- Zebra is the .....

9(b). If you know that the number of lions decreases, what will happen to the numbers of Zebras?

.....

9(c). Explain why the role of the predators are important in the ecosystem?

.....

Q10. The table show the amount of rainfall averages in different cities.

Look at the table and answer the questions.

10(a) . Which city has the most rainfall from 1981 – 2010?

.....

10(b). what is the amount of rainfall averages in San Diego?

.....

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)

10(c) . If Aisha records the amount of rainfall on Al Ain for 3 months.

**Aisha's Data**

The month	rainfall
March	10 inch
April	14 inch
May	6
the average rainfall:	?

- What the average rainfall?

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\*\*\*\*\* End of the Exam\*\*\*\*\*