

## EXERCICES OF BIOLOGY S2 ALL MARCH 2020

- 1) Which characteristics are used to group phylum Arthropoda into different classes?
- 2) Why do birds have wings.
- 3) Place classes in phylum chordate as either homeothermic or poikilothermic in the table below. These classes are Mammalia, Pisces, Aves, Reptilia and Amphibia.

Poikilothermic	Homeothermic

- 4) Using your knowledge on characteristic features of the five classes of chordates, complete the table below using a tick (✓) where the feature is present and (X) if absent.

Class of phylum chordata	Scales	External ear	Mammary gland	Feathers
Birds				
Reptilian				
Amphibia				
Mammalian				
Pisces				

- 5) Name the phylum to which all vertebrates belong.
- 6) Insects are both useful and harmful.
- 7) Differentiate community with a population.
- 8) Plot the following data by placing the producers at the bottom

Trophic level	Dry weight
Carnivores	10
Herbivores	60
Producers	500

- a. What does this pyramid indicate?
- b. Explain why the dry weight of the carnivores must be low.
- 9) Do you agree with the statement below?

**“All food chains begin with green plant”**

Explain your answer.

10) What do you think affects the rate of diffusion?

11) Identify locations in plants and animal tissues where active transport occurs

12) Compare active with passive transport by completing the following table.

Criteria	Passive transport	Active transport
Definition		
Energy		
Process involved		
Substances transported		

13) Gives the similarities and differences between Diplopoda and Chilopoda by filling the following table.

	Similarities	Differences
Diplopoda		
Chilopoda		

14) Which characteristics are used to group phylum Arthropoda into different classes?

15) Study the following food chain: Grass → Zebra → Lion

- a) What do you think would happen if lions ate all the Zebras?
- b) What is the role of decomposers in a o food chain?
- c) What is the role of Grass in a o food chain?
- c) What is the role of zebra in a o food chain?
- d) What is the meaning of the arrow in food chain?

16) What are the habitats of amphibians?

17) What is the meaning of the following of the following terms?

- a) Eukaryotic b) Multicellular c) Heterotrophic