

Zoology Test #1 STUDY GUIDE

Name: Answer Key

Directions: Complete the following questions to prepare for the unit test

- Determine if the following statements are true or false regarding lab safety:
 - You should wear closed toed shoes during dissections **T**
 - Long hair should be pulled back **T**
 - Goggles must be worn during dissections **T**
 - Drinking during a dissection is okay if it's water **F**
 - A lab apron and gloves should be worn during a dissection **T**
- Write the name of the phylum that the animal is in:
 - Hookworms and heartworms: **Nematoda**
 - sponges: **Porifera**
 - lobsters and beetles: **arthropoda**
 - jellyfish and sea anemone: **Cnidaria**
 - mammals and birds: **Chordata**
- Who created the modern classification system of organisms? **Linnaeus**
- Taxonomy is the study of **classification**
- Which of the following is the correct way to write the scientific name of a panda?
A. Ailuropoda melanoleuca B. Ailuropoda Melanoleuca C. Ailuropoda melanoleuca
- What are the four characteristics of all animals: **Made of Cells, have DNA, Evolve and face environmental pressures**
- The scientific name of an organism is its **genus** and **species**.
- Why do scientists use scientific names instead of common names?
Common names may vary so they use scientific names so everyone knows exactly what animal they are talking about.
- Put the taxonomic categories in order from the one that is the broadest to the one that is the most specific: **Kingdom, Phylum, Class, Order, Family, Genus, Species**
- Fossils** are evidences of past life preserved in stone, coal or other materials.

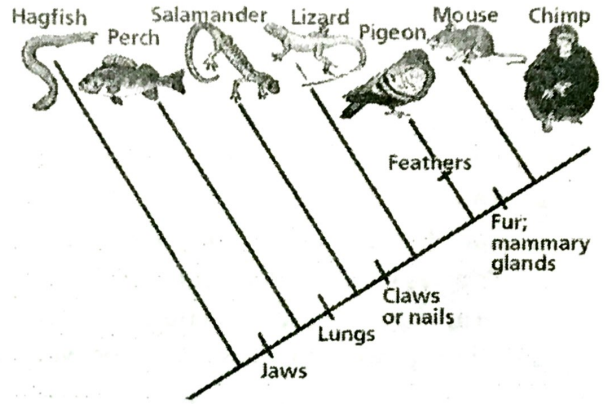
Directions: Match each organism with the type of symmetry it has. You may use an answer twice.

- | | |
|------------------------|-----------------|
| 11. alligator B | A. Radial |
| 12. panda B | B. Bilateral |
| 13. jellyfish A | C. Asymmetrical |
| 14. coral C | |

15. List all the essential functions of animals:

- | | | |
|-------------|---------------|-----------|
| ① Reproduce | ④ Circulation | ⑦ Respire |
| ② Respond | ⑤ Feed | |
| ③ Excrete | ⑥ Move | |

Use the cladogram to answer questions 16-18



16. Which animal doesn't have jaws?

Hagfish

17. Are salamanders more closely related to lizards or to chimps?

Lizards

18. What one trait does chimps not have that is on this cladogram?

Feathers

19. Which book did Charles Darwin famously write?

The Origin of the species

20. Explain the difference between artificial selection and natural selection.

Natural selection allows nature to select the better traits. Artificial selection is when humans select the better traits.

21. A lion's paws, dolphin flippers, and a bird wing are all what type of structure?

Homologous structures

22. Bird wings and insect wings are examples of what type of structure?

Analogous structure

23. Snake pelvic bones and the human appendix are examples of what type of structure?

Vestigial structures

24. List the lengths of time from longest to shortest?

Eons, Eras, Periods, Epoch

25. The process by which individuals that are better suited to their environment survive and reproduce most successfully is called

Natural selection

26. A(n) ~~part~~ is any inherited characteristic that increases an organism's chance of survival.

Adaptation

27. Define camouflage and state why it is a useful trait for an animal.

An ability to blend in with surroundings - can hide from predators or prey

28. Define mimicry and state why it is a useful trait for an animal.

Looks or Acts like another species - can deceive predators

29. State the era and period that the following events took place during:

	Era	Period
What we are in currently:	Cenozoic	Quaternary
First reptiles	Paleozoic	Mississippian
First amphibians	Paleozoic	Devonian
First birds	Mesozoic	Jurassic
First dinosaurs	Mesozoic	Triassic
First mammals	Mesozoic	Triassic
First human like ancestor	Cenozoic	Tertiary

State what the following things eat:

- a. Grainivores - seeds
- b. Nectarivores - Nectar
- c. Herbivore - plants

- d. Carnivore - Meat
- e. Omnivore - plants + meat
- f. Detritivore - dead materials

- g. Insectivore - insects
- h. Piscivore - fish
- i. frugivore - fruit