

JOHN BEATTY

NAME (PRINT) \_\_\_\_\_

**MARK YOUR ANSWER CLEARLY AND UNAMBIGUOUSLY**

1. What term is used for water moving out to sea from the shore line?
    - a. tides
    - b. rip tide
    - c. rip current**
    - d. bore
  
  2. What is the Saffir Simpson scale is used to measure?
    - a. all winds
    - b. wave heights
    - c. tidal movement
    - d. hurricanes**
  
  3. In which direction does the Coriolis Effect cause an object moving in the northern hemisphere to veer?
    - a. right**
    - b. left
    - c. north
    - d. south
  
  4. What caused the disaster in Galveston in 1900?
    - a. tsunami
    - b. storm surge**
    - c. volcanic eruption
    - d. earthquake
  
  5. In which direction to the trade winds blow in the Northern hemisphere?
    - a. from north to south
    - b. from east to west**
    - c. from north to south
    - d. from south to north
  
  6. In what way does (liquid) sea water compare to ice?
    - a. ice is denser than sea water
    - b. ice contains more minerals
    - c. sea water is denser than ice**
    - d. none of these is true.
- ICE FLOATS SO IT MUST BE LESS DENSE**

7. What showed most irregular graph line of the traits we discussed going from the surface of the water to the bottom?

- a. **oxygen**
- b. salinity
- c. light
- d. heat

8. What is the cause of the movement of nutrients from lower levels towards the surface?

- a. thermocline
- b. the great ocean conveyor belt
- c. rip currents
- d. **upwelling**

9. During an El Niño which condition exists?

- a. **there is a low pressure over the Eastern Pacific**
- b. there is a low pressure over the Western Pacific
- c. upwelling is occurring in the Eastern Pacific
- d. the thermocline rises in the Eastern Pacific

10. The Indian Ocean lies

- a. largely in the northern hemisphere
- b. **largely in the southern hemisphere**
- c. lies about equally in the northern and southern hemisphere
- d. reaches only to the Arctic Ocean and not the Southern Ocean

11. Which of the following marks the highest level of classification of those listed? water moving out to sea from the shore line?

- a. order
- b. genus
- c. **class** **THE ORDER IS KINGDOM, PHYLUM, CLASS, ORDER, FAMILY, GENUS, SPECIES**
- d. family

12. Which of the following is the correct classification for human beings?

- a. homo sapiens
- b. Homo sapien **THE GENUS IS ALWAYS WITH AN UPPER CASE LETTER AND THE "S" IS REQUIRED ON "SAPIENS". THE IS NO SUCH FORM AS "SAPIEN"**
- c. homo sapien **THE GENUS IS ALWAYS WITH AN UPPER CASE LETTER AND THE "S" IS REQUIRED ON "SAPIENS". THE IS NO SUCH FORM AS "SAPIEN"**
- d. **Homo sapiens**

13. Which is the most recent form of classifying organisms ?

- a. Hadley **(This is a "cell" in movement of air)**
- b. Linnean **(This is the older taxonomic system)**
- c. **cladistics**
- d. Darwinian

14. Which of the following is NOT a necessary condition to define an “animal”?
- a. multicellular
  - b. reproduces sexually or asexually
  - c. heterotrophic
  - d. none of these**
15. What distinguishes “prokaryotes” from “eukaryotes”?
- a. prokaryotes are animals and eukaryotes are not
  - b. prokaryotes lack a nuclear membrane, eukaryotes have one**
  - c. prokaryotes contain all the animals while eukaryotes contain all the plants
  - d. Eukaryotes are a phylum, while prokaryotes are a subphylum
16. What changes occurred in “neo-Darwinism”?
- a. Neo-Darwinism rejects Lamarck, and replaces his theory with genetics**
  - b. Neo-Darwinism rejects the idea of natural selection
  - c. Neo Darwinism rejects the idea of natural variation
  - d. none of these
17. The simplest animals are known as
- a. echinoderms
  - b. horseshoe crabs
  - c. sponges (porifera)**
  - d. jellyfish
18. What did the scientists who wrote the article about Rapa Nui find? (**DID YOU READ THE ARTICLES?**)
- a. warming temperatures had killed off algae but not coral.
  - b. new kinds of sea urchins
  - c. a loss of fish within the coral reef.
  - d. all of these**
19. Dead zones
- a. are occurring less frequently
  - b. cannot recover
  - c. have recovered in some cases**
  - d. are caused by an excess of oxygen in the waters
20. Which of the following NOT a taxonomic category?
- a. arthropod (**joint legged phylum – insects, lobsters, crabs, spiders etc**)
  - b. nekton (have some ability to swim against a current)**
  - c. Cnidaria (**Jellyfish, anemones etc.**)
  - d. Mollusk (Clams, oysters, etc.)

21. Which of the following is NOT a vertebrate?

- a. **giant squids (A mollusk)**
- b. whales (a mammal)
- c. sharks (a cartilaginous fish)
- d. tuna fish (a bony fish)

22. The sea turtle

- a. is found only in fresh water (being a SEA turtle it is likely to be a marine animal)
- b. is a mammal
- c. is an amphibian
- d. **is a vertebrate (it is a reptile – one of the 5 vertebrate classes: fish, amphibians, reptiles, mammals, and birds)**

23. Which bird is most adapted to sea life?

- a. plovers
- b. ospreys
- c. **penguins**
- d. herons

24. Which animal is associated with a kind of tool using?

- a. sea urchins
- b. **sea otters (They use a stone to crack open sea urchins)**
- c. sea cucumbers
- d. none of these

25. What term is used the area where rivers meet the oceans?

- a. **estuaries**
- b. mangrove forests
- c. wet lands
- d. salt flats