

OCN201 Fall 2007 - Exam 3 (Biology Section / Final) (75 Points)

True/False (1 point each). A=TRUE; B=FALSE

Indicate whether the sentence or statement is true or false.

- ___ 1. The Miller-Urey experiment showed that Panspermia is possible.
- ___ 2. Sponges are animals
- ___ 3. The aphotic zone refers to the deepest part of the sea into which no sunlight penetrates
- ___ 4. Most fisheries are being fished at well below their maximum sustainable yield
- ___ 5. The upwelling of nutrients near Peru/Chile increases during El Nino
- ___ 6. The average temperature of the Earth has increased about 1 degree Celcius in the last 100years
- ___ 7. Sharks have cartilaginous skeletons
- ___ 8. Studies of whale falls have shown that they may serve as stepping stones for hydrothermal vent species
- ___ 9. Only invertebrates are known to filter feed
- ___ 10. Scavengers get their food by feeding on dead animals and detritus
- ___ 11. Seaweed is the most important primary producer in the ocean
- ___ 12. Populations contain only one species
- ___ 13. The age of the universe is about 4 billion years
- ___ 14. Autotrophs are consumers
- ___ 15. The sea is 2 times more productive than land
- ___ 16. Carbon dioxide is a greenhouse gas
- ___ 17. The pH of the oceans is increasing
- ___ 18. Life started late in Earth's history
- ___ 19. Linear taxonomy demonstrates how organisms evolved
- ___ 20. Primary consumers eat fish
- ___ 21. Microbes are genetically and physiologically diverse
- ___ 22. Keystone species are small microbes at the base of the foodweb

Multiple Choice (2 points each)

Identify the letter of the choice that best completes the statement or answers the question.

- ___ 23. Which of the following is NOT part of Darwin's theory of evolution by natural selection
 - a. mutation
 - b. heritability of traits
 - c. unlimited resources
 - d. selection by the environment

Name: _____

ID: A

- _____ 24. An organism that uses light energy to make its own food is a:
- Parasite
 - Secondary Consumer
 - Chemoheterotroph
 - Photoautotroph
- _____ 25. For decaying whales on the sea floor, the first of the three main stages of decomposition is characterized by:
- chemoautotrophic bacteria
 - enrichment opportunists
 - mobile scavengers
 - ambush predators
- _____ 26. Some corals harbor photosynthetic dinoflagellates known as
- mastigonemes
 - zooxanthellae
 - polyps
 - cnidocytes
- _____ 27. Which of the following is the most abundant type of life in the ocean
- Prokaryotes
 - Fishes
 - Jellyfish
 - Protists
- _____ 28. El Nino (ENSO) events cause
- a greater probability of tsunamis
 - increased primary production
 - warming of the surface ocean
 - no significant changes
- _____ 29. Which of the following is NOT one of the three domains of life
- Prokaryotes
 - Eukaryotes
 - Archaea
 - Plantae
- _____ 30. Which of the following continuously increases with depth in the ocean:
- light
 - pressure
 - salinity
 - organic matter
- _____ 31. For the past several years, excluding aquaculture, global fisheries have been
- declining
 - rising sharply
 - remaining constant
 - fluctuating wildly
- _____ 32. What percentage of species have gone extinct
- 1%
 - 10%
 - 50%
 - 99%

