

Quiz #4 - Oceans and Currents**Multiple Choice**

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

- ___ 1. A gap in a line of breakers is often a sign of
a. rip currents. c. deep currents.
b. longshore currents. d. undertow.
- ___ 2. Most mid-ocean ridges form
a. in areas of increased volcanic activity. c. below sea level.
b. along fracture zones. d. in trenches.
- ___ 3. As deep ocean water becomes colder, it also becomes
a. saltier. c. clearer.
b. denser. d. lighter.
- ___ 4. By studying variations in color in the ocean, scientists can determine the presence of
a. oxygen. c. phytoplankton.
b. trace elements. d. sea mammals.
- ___ 5. The deepest place in Earth's crust is a(n)
a. abyssal plain. c. trench.
b. submarine canyon. d. seamount.
- ___ 6. What is the name for the movement of deep, cold and nutrient-rich water to the surface?
a. upwelling c. desalination
b. thermocline d. benthos
- ___ 7. What is called the foundation of life in the ocean?
a. minerals c. salt
b. plankton d. whales
- ___ 8. The two principal gases dissolved in ocean water are
a. oxygen and hydrogen. c. hydrogen and nitrogen.
b. carbon dioxide and oxygen. d. nitrogen and oxygen.
- ___ 9. Two consecutive wave crests pass a given point in one
a. wavelength. c. swell.
b. trough. d. wave period.
- ___ 10. Which of the following causes gyres to form?
a. the Equatorial Countercurrent c. deep currents
b. West Wind Drift d. the Coriolis effect
- ___ 11. A large body of saline water that may be surrounded by land is a(n)
a. sea. c. global ocean
b. ocean. d. submersible.

- _____ 12. Scientists use sonar to
- a. photograph ocean organisms.
 - b. calculate the depth of the ocean floor.
 - c. measure the temperature of ocean water.
 - d. obtain samples from the ocean floor.
- _____ 13. The factors that determine the size of a wave are wind speed, fetch, and
- a. the length of time the wind blows.
 - b. water salinity.
 - c. water temperature.
 - d. amount of sediment on the ocean floor.
- _____ 14. Calling a tsunami a tidal wave is misleading because
- a. a tsunami only occurs during ebb tides.
 - b. a tsunami is not caused by tides.
 - c. a tsunami is not really a wave.
 - d. a tsunami does not occur in the ocean.
- _____ 15. Nutrients in ocean water are stored
- a. near the surface.
 - b. in deep water.
 - c. at the polar regions.
 - d. at the tropics.
- _____ 16. The deepest and largest ocean on Earth is the
- a. Atlantic.
 - b. Southern.
 - c. Pacific.
 - d. Indian.
- _____ 17. Seamounts are most likely to form in
- a. trenches.
 - b. hot spots.
 - c. tablemounts.
 - d. fracture zones.
- _____ 18. The Marianas Trench is associated with which volcanic island chain and where is it located?
- a. The Philippines Islands and about half way between the Japan and Indonesia.
 - b. The Aleutian Islands and about half way between Alaska and the Province of Vancouver.
 - c. The Marianas Islands and about half way between Japan and Indonesia.
 - d. Catalina Islands, just off the coast of California.
- _____ 19. Meteorite dust is one kind of
- a. nodule.
 - b. ooze.
 - c. core sample.
 - d. inorganic sediment.
- _____ 20. If high tide is at 4:00 p.m. today, at about what time will high tide occur tomorrow?
- a. 4:50 p.m.
 - b. 4:00 a.m.
 - c. 4:25 p.m.
 - d. 3:10 p.m.