

Answers must be sent through your PERSONAL LEARNING DEVICE. **Circle your answers on this test form as well.** This will be turned in for EXTRA CREDIT.

PART I: DEMOGRAPHICS

The information that you submit is for statistical purposes only. None of this information will be associated with your name.

1. **What is your gender?**
 - a. male
 - b. female

2. **What is your age?**
 - a. ≤ 18
 - b. 19 – 20
 - c. 21 – 22
 - d. 23 – 24
 - e. 25 – 26
 - f. > 26

3. **What is your class standing?**
 - a. freshman
 - b. sophomore
 - c. junior
 - d. senior
 - e. graduate student
 - f. lifetime learner

4. **What is your ethnic background?**
 - a. African American
 - b. Asian
 - c. Caucasian (white)
 - d. Hispanic
 - e. Middle Eastern
 - f. Native American
 - g. Pacific Islander
 - h. Other

5. **What was your High School G.P.A.?**
 - a. ≤ 0.9
 - b. 1.0 – 1.9
 - c. 2.0 – 2.9
 - d. 3.0 – 3.9
 - e. 4.0 – 4.5
 - f. > 4.5

- In which high school grade did you take:**
 6. Physics a. 8 b. 9 c. 10 d. 11 e. 12 f. Never
 7. Chemistry a. 8 b. 9 c. 10 d. 11 e. 12 f. Never
 8. Biology a. 8 b. 9 c. 10 d. 11 e. 12 f. Never
 9. Earth Science a. 8 b. 9 c. 10 d. 11 e. 12 f. Never

10. **What is the highest degree earned of your Female Parent?**
 - a. Elementary School
 - b. some High School
 - c. High School
 - d. some College
 - e. Bachelor's Degree
 - f. some Graduate School
 - g. Master's Degree
 - h. Doctoral Degree

11. **What is the highest degree earned of your Male Parent?**
 - a. Elementary School
 - b. some High School
 - c. High School
 - d. some College
 - e. Bachelor's Degree
 - f. some Graduate School
 - g. Master's Degree
 - h. Doctoral Degree

PART II: CONTENT ASSESSMENT

12. The Earth has different internal layers. These layers differ in terms of:
 - a. density
 - b. chemical composition
 - c. size / volume
 - d. physical properties
 - e. all of the above

13. The sea floor is being generated today
 - a. at mid-ocean ridges
 - b. in abyssal plains
 - c. by continents
 - d. in continental shelves
 - e. at oceanic trenches

14. Basalt, the dark, dense rock produced by volcanoes is found
 - a. In ocean floors
 - b. In oceanic islands
 - c. In continental shelves
 - d. On continents
 - e. All of these

15. Magnetic bands in the ocean floor rock is found
 - a. near mid-ocean ridges
 - b. in abyssal plains
 - c. in very old floor
 - d. near trenches
 - e. all of these

16. Which of the following is a line of evidence that suggests the Earth's surface is made of large plates that are in motion?
 - a. the worldwide distribution of earthquakes
 - b. the distribution of volcanoes around the world
 - c. the distribution of deserts and glaciers on the Earth's surface
 - d. only A and B
 - e. all of the above

17. On the floor, in a depth of 6000m, at 30 degrees latitude, in the center of the ocean, the most likely dominate item making up the upper sediment is:
 - a. Organic material, parts of fish, bones
 - b. Red clay
 - c. Calcium Carbonate material from small shells
 - d. Silicon Dioxide material from small shells
 - e. Material from the edge of continents delivered by underwater slumps and avalanches

18. Sea water will become more dense if:
 - a. the temperature decreases
 - b. the salinity decreases
 - c. pressure decreases
 - d. the depth decreases
 - e. all of these

19. The atom that makes up the largest percentage of the salinity in seawater is:
- Calcium
 - Chlorine
 - Fluorine
 - Iron
 - Sodium
20. Consider a large marginal sea such as the Mediterranean. The place that the largest tide range (water change from a low tide to the next high tide) will occur:
- at the center.
 - where the sea is the deepest.
 - over the shelf.
 - on the east end of the sea.
 - on the edge or side of the sea.
21. The highest ocean salinity is at:
- sea surface, equator
 - sea surface, 30 degrees latitude, center of ocean
 - sea surface, polar region
 - ocean bottom, equator
 - ocean bottom polar region
22. The highest ocean temperature is at:
- The western equatorial sea surface
 - The eastern equatorial sea surface
 - The western side of the ocean, at mid-latitude, in the Gulf stream
 - Sea surface, 30 degrees latitude, in the center of the ocean
 - The eastern side of ocean, at mid-latitude, in the California current, at the sea surface.
23. The period of a wave is
- the distance between two peaks
 - the distance between a peak and a trough
 - the time it takes for one complete wave to pass
 - how quickly the wave covers a fixed distance
24. The most likely factor generating ocean waves with a 200 km [200,000 m] wavelength is:
- wind
 - a sudden drop in atmospheric pressure
 - a sudden movement of the sea floor
 - the gravitational pull of the moon
 - the rotation of the Earth
25. There is a wave with a length of 100 m in water that is 1000 m deep. The speed of the wave depends on:
- The depth of the water
 - the wave length
 - the height of the wave
 - the water density

26. There is a wave with a length of 100 m in water that is 4 m deep. The speed of the wave depends on:
- The depth of the water
 - the wave length
 - the height of the wave
 - the water density
27. The Earth's ocean tides are greatly influenced by the gravitational attraction between the _____:
- Sun and Earth
 - Moon and Earth
 - Mars and Earth
 - both A and B
 - all of these
28. A parcel of water is moving TOWARD the north, in the North Pacific Ocean. The parcel will move toward the _____ due to the rotation of the Earth.
- North
 - East
 - South
 - West
29. Which of the following is an example of life typical of the bottom of the food chain?
- jellyfish
 - diatom
 - clam
 - shark
 - sponge
30. What is a requirement to have high levels of growth of single-celled, plantlike life in the ocean?
- nutrients
 - warmer water
 - limited pressure
 - deep bottom depths
 - all of these
31. What is most true about tropical ocean surface waters not directly at the equator?
- Rich in nutrients
 - Very productive all year
 - High numbers of photosynthetic life
 - High concentration of fish
 - None of these