

**EARTH AND ENVIRONMENTAL SCIENCE      SOCIETY AND THE OCEAN**  
**QUIZ ONE                      SUMMER SESSION 1 2019                      JOHN BEATTY**  
**NAME (PRINT)\_\_\_\_\_**

**INSTRUCTIONS: Do either part I or Part II**

**PART I - SHORT ANSWERS**

1. What is the term for the water that lies over the continental shelf?  
(a) Pelagic  
**(b) Neritic**  
(c) Littoral  
(d) Hadalpelagic
2. The part of the ocean where there is enough light to see, but not for photosynthesis is  
(a) euphotic  
(b) pelagic  
(c) littoral  
**(d) dysphotic**
3. Polaris (the North Star) is useful in figuring out  
(a) The seasons  
**(b) The latitude**  
(c) The longitude  
(d) None of these
4. Coral is  
(a) A mineral  
**(b) An animal related to jellyfish**  
(c) A small fish  
(d) None of these
5. The penetration of light in the water is crucial because it sets the limit for  
(a) Coriolis effect  
(b) Wave height  
**(c) Photosynthesis**  
(d) Decaying organic matter
6. Organisms which produce their own food are called  
(a) heterotrophs  
**(b) autotrophs**  
(c) corals  
(d) pelagic

7. Water
- (a) Becomes somewhat denser as it gets colder
  - (b) Becomes less dense when it freezes
  - (c) Exists naturally in 3 (or possibly 4) different phases on Earth
  - (d) All of these**
8. The beginning of modern scientific oceanography is attributed to
- (a) Capt. Cook and his Endeavor voyages
  - (b) Charles Darwin and his Beagle voyage
  - (c) Charles Thomson and the Challenger voyage**
  - (d) Christopher Columbus and the Nina, Pinta and Santa Maria
9. Residence time refers to
- (a) How long a species has lived on Earth
  - (b) How long a chemical remains in a given sphere**
  - (c) How long it takes for people to populate a given territory
  - (d) None of these
10. The term used for using one's own cultural categories in analyzing another culture is
- (a) Emic-etic
  - (b) Cultural relativism
  - (c) anthropomorphism
  - (d) ethnocentrism**
11. People were able to populate the Pacific Islands because of
- (a) The ice age
  - (b) Tectonic plate movement
  - (c) The appearance of Beringia
  - (d) None of these**
12. About what percent of the Earth's surface is covered with water?
- (a) 10%
  - (b) 50%
  - (c) 70%**
  - (d) 90%
13. The idea that coral reef formation had to do with volcanic islands eroding was proposed by
- (a) Capt. James Cook
  - (b) Charles Darwin**
  - (c) Alfred Wegener
  - (d) Charles Wyville Thomson
14. Buoyance involves
- (a) Weight
  - (b) Density**
  - (c) Height
  - (d) Width

15. Rafts differ from boats in that
- (a) rafts are built of material that is denser than water
  - (b) boats can be built so that they are buoyant even though the materials that make them up may not be.**
  - (c) Rafts are always smaller than the smallest boat
  - (d) Rafts can only drift.
16. During an “ice age” sea levels
- (a) Are lower**
  - (b) Are higher
  - (c) Remain about the same
  - (d) Move further onto the continents
17. A sextant is used to
- (a) Obtain the height of a celestial body**
  - (b) Obtain the depth of the ocean
  - (c) Obtain the distance from land
  - (d) All of these
18. The “prime meridian” passes through
- (a) New York
  - (b) Washington D.C.
  - (c) Greenwich, England**
  - (d) None of these
19. When an element moves from the air into the ocean it moves from the
- (a) Lithosphere into the hydrosphere
  - (b) Atmosphere into the lithosphere
  - (c) Biosphere into the atmosphere
  - (d) Atmosphere into the hydrosphere.**
20. Land which rises up in the ocean and is worn down to a flat top is known as
- (a) a sea mount
  - (b) a guyot**
  - (c) a mid ocean range
  - (d) an abyssal plane
21. Which order is correct in coral reef formation?
- (a) undersea volcano, fringing reef, barrier reef, atoll**
  - (b) undersea volcano, barrier reef, fringing reef, atoll
  - (c) undersea volcano, fringing reef, appearance of coral, barrier reef
  - (d) barrier reef, fringing reef, appearance of coral, atoll
22. The part of the economy in which the money is generated by maritime connected business is known as
- (a) the water business
  - (b) the maritime economy
  - (c) the blue economy**
  - (d) the green economy

23. The name of the land which appears between Asia and the Americas during the ice age is
- (a) Gondwana Land
  - (b) **Beringia**
  - (c) Pangea
  - (d) all of these
24. Evidence that contributes to the idea that the continents were once connected comes from
- (a) The distribution of fossils
  - (b) The idea that the continents fit together like a jigsaw puzzle
  - (c) The discovery that tectonic plates were moving the continents
  - (d) **All of these**
25. Most of the world's fresh water is found in
- (a) lakes
  - (b) ground water
  - (c) rivers
  - (d) **glaciers and ice caps**

PART II DO ANY **TWO** OF THE FOLLOWING ESSAYS

1. In what ways has the ocean helped and hindered the movement of peoples over the millennia?
2. Discuss the nature of navigation in different cultures
3. Discuss the nature of the different kinds of "bias" in scientific investigation and the theoretical ways in which this has been analyzed
4. Discuss the discoveries made by the Challenger expedition.