Green River Community College

Course: OCEA&101

Term: Fall 2012 Section: A, #7215

**Pre-Assessment Survey of All Things Ocean**

*Note: This survey is intended to assess your current understanding of the ocean. This survey will not be used in determining your grade. Please take time to answer each question to the best of your ability.*

1. Circle the choice that best fits. The Earth has…. (1a, 1b)
   1. Many separate oceans spaced by land, and the ocean bottom is very deep and uniformly flat.
   2. Ocean basins connected as one ocean, and the ocean bottom is very deep and uniformly flat.
   3. Many separate oceans spaced by land, and the ocean bottom varies in shape and features.
   4. Ocean basins connected as one ocean, and the ocean bottom varies in shape and features.
2. (TRUE or FALSE) Major waterways and watersheds on Earth eventually drain to the ocean, transporting nutrients, salts, sediments, and pollutants with them. (1g)
3. Circle the choice that describes how water in the ocean can move: (1c)
   1. Vertically due to differences in temperature and/or salinity of water
   2. Horizontal currents created by an ebbing or flooding tide
   3. Vertically to surface from deep below due to prevailing winds
   4. All of the above
4. Tides in the ocean are driven by…. (1c)
   1. Internal magma properties in the center of the Earth
   2. Expansion of the solar system
   3. Gravitational pull of the moon and sun
   4. None of the above
5. The vast majority of the water on Earth is contained in: (1e)
   1. Ocean
   2. Lakes & Rivers, especially the Great Lakes
   3. Ice caps, glaciers, & icebergs
   4. None of the above
6. Many sedimentary rocks now exposed on land were once…. (2a)
   1. Formed in the ocean, some originating from ancient organisms.
   2. Formed from underwater volcanoes.
   3. Formed in the ocean, some originating from ancient asteroids & comets.
   4. Formed directly from lava from within the Earth’s core.
7. Circle the choice that describes how the ocean can drive atmospheric circulation: (3b)
   1. The ocean quickly heats up from sunlight and pushes this heat towards land masses
   2. The ocean absorbs much of the sunlight and loses heat by evaporation
   3. The ocean creates hurricanes when cold water surfaces from the deep
   4. All of the above
8. Circle a reason why the ocean makes Earth habitable: (4a)
   1. Most of the life in the ocean absorbs almost no oxygen compare to life on land
   2. Most of the oxygen we breathe originally came from life in the ocean
   3. The ocean is isolated from the release of carbon dioxide in the atmosphere
   4. All of the above
9. (TRUE or FALSE) Weather patterns here in Auburn, WA are influenced by the ocean. (3a)
10. (TRUE or FALSE) There is much less living space (and therefore much less diversity) for life in the ocean compared to land due to the challenging environmental conditions. (5e, 5f)
11. The most abundant life in the whole ocean is: (5b)
    1. Whales, dolphins, & porpoises
    2. Fish & sharks
    3. Plankton
    4. Clams, mussels, & oysters
12. (TRUE or FALSE) Due to the efforts of early explorers and many scientists, the majority of the ocean has been explored and most of the ocean bottom has been mapped. (7)
13. List 3 important resources/roles that the ocean plays in our lives: (6)
14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Name 3 significant potentially negative impacts that we as humans have on the ocean: (6e)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. On a scale of 1 to 10, rate your interest in ocean issues: (6g)

No interest at all & 1 2 3 4 5 6 7 8 9 10 Extremely interested & must help

am not affected to protect the ocean & resources

1. Why did you choose this course?
2. What other college-level science courses have you taken before this (write N/A if none)?
3. Circle the month of the year that you were born:

Jan Feb Mar Apr May Jun July Aug Sept Oct Nov Dec

1. Circle the number of siblings that you have:

0 1 2 3 4 5 6 7 or more