

Instructions (shown before students start the test)

Provide Correct Answer for each question.

Total Points: 20 Points

Introduction (shown after students start the test)

Dynamic Planet Division B - Macomb County Workshop Test - January 16, 2021

1. (1.00 pts) Surface currents create circular swirls called...

- A) Gyres
- B) Dynamos
- C) Whirlpools
- D) Maelstroms

2. (1.00 pts) In the open ocean, average seawater salinity is...

- A) 0.0035 ppt
- B) 0.035 ppt
- C) 0.35 ppt
- D) 3.5 ppt
- E) 35 ppt
- F) None of the above

3. (1.00 pts) Which of the following INCREASES the salinity of seawater?

- A) Runoff entering the ocean
- B) Precipitation into the ocean
- C) Icebergs melting in the ocean
- D) Evaporation of sea water
- E) The first two choices only

4. (1.00 pts) Diurnal tides include ___ every day.

- A) Two high tides and two low tides
- B) One high tide and one low tide
- C) A varying number of tides
- D) More high tides than low tides

5. (1.00 pts) At constant temperature, as the salinity of seawater increases, density _____?

- A) increases
- B) decreases
- C) remains the same

6. (1.00 pts) As the depth of seawater increases, temperature _____?

- A) increases
- B) decreases
- C) remains the same

7. (1.00 pts) As depth of seawater increases, salinity _____?

- A) increases
- B) decreases
- C) remains the same

8. (1.00 pts) As water cools from 20° C to 4° C, its density _____?

- A) increases
- B) decreases
- C) remains the same

9. (1.00 pts) As water cools from 4° C to 0° C, its density _____?

- A) increases
- B) decreases
- C) remains the same

10. (1.00 pts) As a block of sea ice melts its temperature _____?

- A) increases
- B) decreases
- C) remains the same

11. (1.00 pts) What does El Niño cause?

- A) Warmer Pacific, fewer Atlantic hurricanes
- B) Warmer Pacific, more Atlantic hurricanes
- C) Cooler Pacific, fewer Atlantic hurricanes
- D) Cooler Pacific, more Atlantic hurricanes

12. (1.00 pts) As waves approach shores, its wavelength normally...

- A) Increases
- B) Remains the same
- C) Decreases
- D) Changes depending on the specific wave

13. (1.00 pts) Halite, anhydrite, and gypsum are examples of _____ sediment?

14. (1.00 pts) _____ are an example of a microscopic, photosynthetic, silica-secreting organism.

15. (1.00 pts) What is the average depth of the calcite compensation depth (CCD) in the ocean?

16. (1.00 pts) What drives currents in the deep ocean?

17. (1.00 pts) What is the density driven, deep water circulation of the oceans called?

18. (1.00 pts) This process rapidly transports large amount of sediment from the shelf to the sea floor?

19. (1.00 pts) What is it called when deep water is pulled to the surface by offshore winds?

20. (1.00 pts) What is the part of the water column that is devoid of light?

