MODERN EARTH SCIENCE

Chapter 22

Movements of the Ocean

Read each statement below. If the If the statement is false, write F is			e provided.
1. Continental land masse	s act as barriers to su	rface currents.	
2. The Coriolis effect is ca	aused by the earth's i	otation.	
3. The overall pattern of t clockwise.	he movement of surf	ace currents in th	e Northern Hemisphere is
4. The Gulf Stream is a w	arm current.		
5. Longshore currents crea	ate a zigzag-shaped sl	oreline.	
6. Because of frictional pushowing.	ıll of tides on the oce	ean floor, the eart	h's rotational speed is
7. The tidal movement to	ward the coast is calle	ed the ebb tide.	
8. Tidal flats are largely u	naffected by tidal cu	rrents.	
9. The winds in the Indian typhoons.	Ocean that change	direction with eac	h season are called
10. Deep currents tend to h	nave cold, highly salir	ne water in them.	
Choose the one best response. Wr 11. The global winds that a			
a. rip currents.	b. westerlies.	c. trade winds.	d. monsoons.
12. The direction of water moving:	particles in a wave in	deep water can b	pest be described as
a. forward.c. up and down.		o. in a long ellips l. in a circle.	e.
13. The relatively weak, irr pulled back to deep wa		eed when the water	er from breaking waves is
a. drift.c. an undertow.		o. a longshore cu l. a rip current.	rrent.

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Choose the one best response. Write the letter of that choice in the space provided.

- 14. Turbidity currents probably form as a result of:
 - a. underwater landslides.
- b. temperature differences.

c. surface winds.

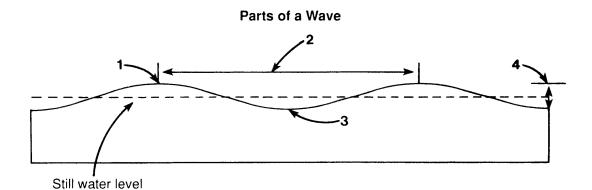
- d. salinity differences.
- ____ 15. Which of the following occurs only during the full and new moon phases?
 - a. spring tides

b. tidal oscillations

c. neap tides

- d. tidal bores
- ___ 16. Where are tidal currents generally strongest?
 - a. along straight coastlines
- b. in the open ocean
- c. along irregular coastlines
- d. in a narrow bay
- _____ 17. Which of the following is the deepest current of the major oceans?
 - a. Equatorial Countercurrent
- b. Antarctic Bottom Water
- c. South Equatorial Current
- d. North Atlantic Drift
- ____ 18. The speed at which a wave moves is calculated by:
 - a. multiplying wavelength and period.
 - b. dividing wavelength by period.
 - c. multiplying wave period and height.
 - d. dividing wave period by height.

Use the diagram below to answer questions 19 and 20.



- _____ 19. Which number in the diagram indicates a wave crest?
 - a. 1
- b. 2
- c. 3
- d. 4
- 20. Which number in the diagram indicates a wavelength?
 - a. 1
- b. 2
- c. 3
- d. 4

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Read each question and answer it in the space provided.

- 21. What general term is used to describe the type of current that is driven by the wind?
- 22. In what body of water does the tidal range exceed 15 m due to tidal oscillations.
- 23. What is the term for the time it takes for one complete wavelength to pass a fixed point?
- 24. What is the bending of waves called?
- 25. What is another name for a seismic sea wave?
- 26. What are the daily changes in the level of an ocean surface called?
- 27. Which planetary body has the most influence on the earth's ocean tides?
- 28. What is formed when the crest is blown off of a wave?
- 29. What is the term for the difference between high tide and low tide at a given location?
- 30. What is the term used to describe the distance that wind has traveled across open water?

Read each question or statement and answer it in the space provided.

31. What causes a wave to break?