10th test

True/False	statement is true or false.			
Indicate whether the	statement is true or faise.			
1. An ocean	layer in which the temperature drops with depth faster than in other layers is called a thermocline.			
2. A wave t	that requires a medium such as air or water through which to travel is called a mechanical wave.			
3. Thermal	expansion is the increase in volume that results from an increase in temperature.			
Multiple Choice				
Identify the choice th	at best completes the statement or answers the question.			
1. On a col	d morning, Pierre observed that the grass looked wet. The picture below shows what Pierre observed.			
	akk. A			
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, ,				
Which p	rocess occurred when the water droplets formed on the grass?			
A. dep	esition			
B. subl	imation			
C. evap	poration densation			
	doing a science experiment on the stomata of plants. He wants to study how tomato plants are in the water cycle. What is the main role of plants in the water cycle?			
A. They	take in water from the air.			
	release water vapor into the air.			
The state of the s	provide a surface for condensation.			
D. They	store water in their stems and leaves.			
	If a warm wind passes over snow, the snow can be heated rapidly. When this happens, the snow can change directly into water vapor without first becoming liquid water. What is the correct term for this process?			
A. meltin	ng			
B. depos	ition			
C. sublin				
D. evapo	ration			
4. Water mo	ecules are polar molecules. What is meant by the term polar molecule?			
	ecule that has an overall positive charge on one end and an overall negative charge			
	e other end ecule that has no charge on one end and either an overall negative or positive			

C. a molecule that has an overall positive charge on one end, as well as an overall positive

D. a molecule that has an overall negative charge on one end, as well as an overall negative

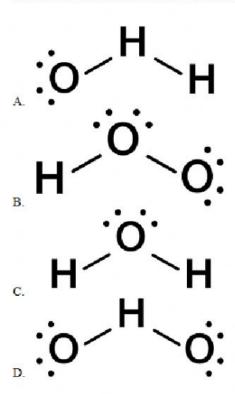
charge on the other end

charge on the other end

charge on the other end



5. Hydrogen and oxygen are the two elements that make up water. Which of the following diagrams correctly shows how these elements form a water molecule?



- 6. Which property of water allows it to form droplets when in liquid form?
 - A. adhesion
 - B. cohesion
 - C. conductivity
 - D. specific heat
 - 7. Which is an example of water's importance that directly relates to the health of people living in developing countries?
 - A. Most of Earth's water is in the form of salt water.
 - B. Every living organism on Earth is made up partly of water.
 - C. Water that is contaminated causes diseases in people who drink it.
 - D. Water has a much higher heat capacity than other substances have.
 - 8. The table below shows the amounts of different types of surface water on Earth.

Water source	Water volume (cubic miles) 5,614,000	
Groundwater		
Lakes	42,320	
Rivers	509	
Swamp water	2,752	

Based on the table, about how much water is available to provide habitat for wildlife?

- A. just over 3,000 cubic miles
- B. nearly 43,000 cubic miles
- C. about 46,000 cubic miles
- D. close to 6,000,000 cubic miles



	9.	Wł	nich pair	of factors determines t	the density of ocean water?	
		A.	salinit	y and latitude		
		B.	lati tud	e and longitude		
		C.	salinit	y and temperature		
		D.	longitu	ide and temperature		
_	10.	W	nich is a	principle that allows so	cientists to use sonar to map the ocean floor?	
		A.	Sound	waves travel more qui	ckly through gases than they do through liquids or solids.	
		B.	Sound	waves travel more quie	ckly through solids than they do through liquids or gases.	
		C.	It take water.	s more time for sound p	pulses to travel through deep water than through shallow	
		D.		waves have a higher ap s source.	pparent frequency to an observer who is moving toward the	
_ 1	11.		ich of the	e following terms is use	ed to indicate the maximum distance that a wave moves from its rest	
		A.	amplitu	de		
			waveler			
			wave sp			
		D.	wave pe	eriod		
. 1	12.	In what way are waves such as those that occur on the ocean surface different from a radio wave?				
		A.	They tr	ansfer energy from on l	ocation to another.	
				ust have a medium thro		
		C.	Their w	avelength is determine	d by their wave period.	
		D.	Their w	ave amplitude can char	nge from one value to another.	
_ 1	13.	If a	wave ha	s a wave period of 30 s	and a wave speed of 2 m/s, what is its wavelength?	
		A.	0.03 m			
		B.	15 m			
			28 m			
		D.	60 m			
_ 1	14.				Mei measure the temperature of lake water as it is warmed by the sun. The	
		following table shows their data at four different times.				
	[1	ime	Temperature (°C)		
		9	a.m.	12		
		1:	a.m.	14		

Time	Temperature (°C)
9 a.m.	12
11 a.m.	14
3 p.m.	16
5 p.m.	13

At what time was the thermal energy of the lake water the greatest?

- A. 9 a.m.
- B. 11 a.m. C. 3 p.m. D. 5 p.m.

