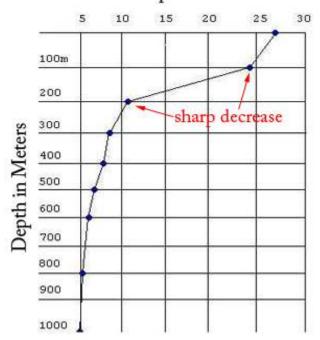
Name:	Score/Tiebreak:	/	Place/Total: /	'

## **2014-15 MVHS Dynamic Planet Try-Out Test**

Be aware that actual tests in this event will likely be much different than this try-out test.

Point values are given in parentheses after each question. Tiebreak points added for especially in-depth answers, deducted for spelling errors, etc.

## Ocean Temperature in °C



Matching (I point each, all answers only used once):

- **4.** \_\_\_ Coriolis Effect
- 5. \_\_\_ Pycnocline
- **6.** Spring tide
- 7. \_\_\_ Neap tide
- **8.** \_\_\_ Gulf Stream
- **9.** Humboldt Current
- **10.** \_\_\_ Atoll
- 11. \_\_\_ Abyssal plain
- 12. \_\_\_ Aphotic zone
- 13. \_\_\_ Halocline
- 14. \_\_\_ Marianas Trench
- **15.** \_\_\_ Sediment
- **16.** \_\_\_ Guyot
- **17.** \_\_\_ Tombolo
- 18. Doldrums

## The following problems are based on the graph to the left:

- 1. Which one of the following reasons best explains the trend in this graph? (2)
  - **a.** Deeper water is closer to the core.
  - **b.** Less sunlight reaches the deeper water.
  - **c.** The weather changed and it takes longer for the deeper water to warm.
  - **d.** The data is not reliable.
- 2. Where could the data have been taken with highest probability? (3)
  - a. In the Humboldt Current
  - **b.** In the Baltic Sea
  - **c.** Near the Cape Verde Islands
  - d. Near the Bering Strait
- 3. The "sharp decrease" shown on the graph to the left is known as the \_\_\_\_\_\_. (5)
  - **a.** Caused when sun and moon make right angle with earth
- **b.** Ring-shaped coral reef
- **c.** Three types: Terrigenous, Biogenous, Hydrogenous
- d. Deflection caused by rotation of earth
- e. A warm current responsible for cyclone formation
- **f.** Most level place on earth
- g. Where two Hadley cells converge
- **h.** Vertical salinity gradient
- i. Caused when the sun, moon, and earth align
- j. Flat-topped, submerged seamount
- **k.** Part of a body of water where no light reaches
- **l.** Layer where density gradient is greatest in a body of water
- m. Pressure here is over 1000 atmospheres
- **n.** A bridge of sediment that connects an island to the mainland
- **o.** Causes a different climate than would otherwise expected in Peru

	Name:	Score/Tiebreal	k:/_		Place/Total:/
Multip	ole Choice (2	points each):			
19.	The "SO" in	ENSO stands for	24.	The pri	mary long term effect of wave refraction is
	<b>a.</b> Sali	ne Oasis		a.	Straightening of the coastline
	<b>b.</b> Stor	rm Ocean		b.	Occurrences of freak waves
	c. Sur	face Oceanography		c.	Bending of waves
	d. Sou	thern Oscillation		d.	Creation of new ocean currents
20.	What does th	e El Niño cause?	25.	Surface	e currents create circular swirls called
	a. Wa	rmer Pacific, fewer Atlantic hurricanes		a.	Gyres
	<b>b.</b> Was	rmer Pacific, more Atlantic hurricanes		b.	Dynamos
		ler Pacific, fewer Atlantic hurricanes		c.	Whirlpools
		ler Pacific, more Atlantic hurricanes		d.	•
21.		oproaches shore, its wavelength normally	26.	Diverge	ent plate boundaries are associated with
	a. Inci				Trenches
	<b>b.</b> Stav	vs the same		b.	Mid-ocean ridges
	-	reases		c.	Subduction zones
		nges depending on the specific wave			Old oceanic or continental crust
22.		pidity currents named for?	27.		re the smallest wind-generated waves called?
		ir high turbulence			Ripples
		ir slow speed			Hundred-year waves
		large randomness of their flow		c.	~ '''
		ir high sediment content			Micro-waves
23		include every day.	28		n small basins sloshing at resonant frequencies
20.		high tides and two low tides	20.		Is a cuspate spit
		high tide and one low tide			Is a sea arch
		arying number of tides		с.	Is a seismic sea wave
		e high tides than low tides			Is a seiche
	<b>u.</b> 1010.	e high fides than low fides		u.	is a science
	Response:				
29.		five Oceans? (1 point each, any order			
	(a)				
	(b)				
	(c)				
	(d)				
	(e)				
30.	(e)(a) What roc	k makes up most of the crust formed at a mid	d-ocean ridge	? (3)	
	(e) (a) What roc (b) What typ	e of rock (i.e. sedimentary) is this? (2)			
	(e) (a) What roc (b) What typ Identify the s	e of rock (i.e. sedimentary) is this? (2)ections of the continental margin. (2 points of	each)		
	(e) (a) What roc (b) What typ Identify the s (a) Flooded	e of rock (i.e. sedimentary) is this? (2)ections of the continental margin. (2 points extension of continent that slopes gently tow	each) vards ocean ba	sin: _	
	(e) (a) What roc (b) What typ Identify the s (a) Flooded (b) Seaward	e of rock (i.e. sedimentary) is this? (2)ections of the continental margin. (2 points extension of continent that slopes gently towedge of previous part, steep gradient into december 1.	each) rards ocean ba	sin: _	
	(e) (a) What roc (b) What typ Identify the s (a) Flooded (b) Seaward	e of rock (i.e. sedimentary) is this? (2)ections of the continental margin. (2 points extension of continent that slopes gently towedge of previous part, steep gradient into december 1.	each) rards ocean ba	sin: _	
31.	(e) (a) What roc (b) What typ Identify the s (a) Flooded (b) Seaward (c) Accumulation	e of rock (i.e. sedimentary) is this? (2)ections of the continental margin. (2 points extension of continent that slopes gently towedge of previous part, steep gradient into december 1.	each) rards ocean ba ep water: t, occurs whe	sin: _	is no trench:
31.	(e) (a) What roc (b) What typ Identify the s (a) Flooded (b) Seaward (c) Accumulation	e of rock (i.e. sedimentary) is this? (2) sections of the continental margin. (2 points of extension of continent that slopes gently towedge of previous part, steep gradient into detaition of sediment at base of the previous part on the ocean basin get energy? (3 points part)	each) rards ocean ba ep water: t, occurs whe er unique, con	sin: _	is no trench:
31.	(e) (a) What roc (b) What typ Identify the s (a) Flooded (b) Seaward (c) Accumulation	e of rock (i.e. sedimentary) is this? (2) sections of the continental margin. (2 points of extension of continent that slopes gently towedge of previous part, steep gradient into detaition of sediment at base of the previous part on the ocean basin get energy? (3 points part)	each) rards ocean ba ep water: t, occurs whe er unique, con	sin: _	is no trench:
31.	(e)	e of rock (i.e. sedimentary) is this? (2) sections of the continental margin. (2 points of extension of continent that slopes gently towedge of previous part, steep gradient into deation of sediment at base of the previous part on the ocean basin get energy? (3 points parts)	each) rards ocean ba ep water: t, occurs whe er unique, con	sin: _ n there	is no trench: