VA Science Olympiad Regional Tournament 2009 Meteorology Test

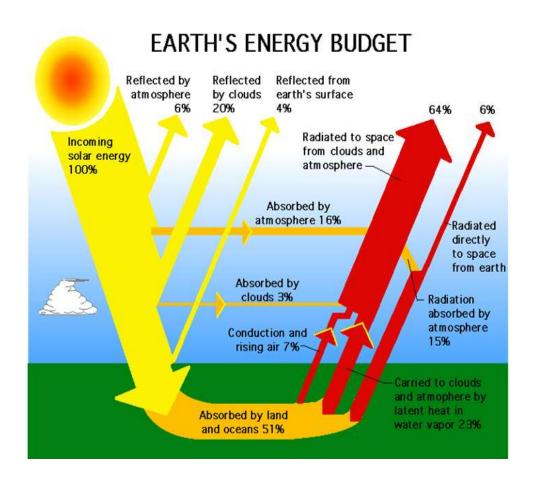
1.	The rainfall rate this hour is part of the for tomorrow.	for today. It is part of the
	A. forecast, thermal recordB. weather, observation	C. weather, climate recordD. baroclinicity, forecast
Fo (C		the following are Weather (W) or Climate
3. 4. 5. 6.	The current temperature in Sioux Falls is 24. The pressure in Minneapolis is falling this had The average temperature today in Juneau is Rainfall this month is well above normal. Winds are out of the North at 10 mph. The surface pressure is 1011 mb.	nour.
8.	Using the three cell model, complete the formation in the cell model.	ry dense due to extremely cold temperatures. This
	A. Hadley, lowB. Polar, high	C. Ferrell, highD. Meridional, low
9.	At the surface, Cells form the s	southwesterly prevailing westerlies.
	A. MeridionalB. Ferrel	C. HadleyD. Polar
10	. Ferrel and Hadley Cells meet at the	
	A. DoldrumsB. Intertropical Convergence Zone	C. Horse latitudesD. Meridional Equinox
11	. Which of the following is not a change io	dentified by Milankovitch:
	A. Orbital eccentricityB. PrecessionC. PolaricityD. Axial tilt	

12. _____ at end of the last ice age ____ the saltiness of sea water, preventing it from sinking, therefore _____ deep water circulation.

- A. Warming, reduced, decreasing
- B. Warming, reduced, increasing
- C. Cooling, reduced, decreasing
- **D**. Cooling, reduced, increasing

13. Which of the following can be used to discover or infer ancient climates of Earth?

- **A**. The fossil record gives us an idea of the climate by knowing plant and animal assemblages
- **B**. Ocean sediments gives us climatic information over hundreds of thousands of years by study of O16/O18 ratios in foraminifera
- C. Ice cores over tens of thousands of years
- **D**. A and C
- E. A, B, and C



14. Which has the greater impact on temperature on a given day, cloud cover or albedo?

	radiation coming to eart	h which may result in	_ temperatures.
	Increased, warmer	C. Increased, cooler	
B . I	Decreased, warmer	D . Decreased, cooler	
If an event i	•	Nino, write an A next to the item. Nina, write a B next to the item.	
17 H 18 S 19 V 20 H 21 N	strong equatorial counter-curry Higher sea levels in the weste stronger then normal subtropic Vetter than average winter over Increased snowfall in the Normal More hurricane activity	rn Pacific cal highs in the Pacific ver Florida	
23. Which		ve caused the Norse settlements in	n Greenland to
D. C #24-30The studied clin A. L B. A	travel agency where you we nate so she gives you the na Juanda, Angola: Aw Alice Springs, Australia: BW	ith the Intuit people led to hostility ork has four new locations. The times of the locations and their Ko	boss knows you
	tanley, Falkland Islands: Cfb Yellowknife, Canada: Dfc		
Give one lo	cation which best fits each	description:	
24	Almost always dry. Ve	ery little rain here.	
25	The temperatures avera	age below -3°C in the winter.	
26	The winter is dry, but t	he summer is very wet.	
		mperatures don't get above 22°C, 1	but they don't
28	Every month is above 1	8°C on average.	
29	This location is most in	fluenced by a marine climate, but r	not the ITCZ.
30	This location is most in	fluenced by the ITCZ, but it is also	near the coast.