Wr. Dixon Kay

6th Grade Science 2nd Semester Final Exam

<u>Directions</u>: Bubble in the <u>best</u> answer to each question on your answer document. Do NOT write on this exam.

I. Wh	ich one	of the	following	does NOT	describe	weather?
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- a.) the force of wind through the trees
- b.) whether it is raining or not
- c.) the amount of water pollution in a lake
- d.) how many clouds there are in the sky
- 2. What is the air above the earth's surface mostly made of?
 - a.) Nothing except clouds

- b.) gases such as nitrogen, oxygen, and water vapor
- c.) pollution from cars and machines
- d.) none of the above
- 3. Which one of the following statements about the earth's atmosphere is TRUE?
 - a.) The temperature increases as you get closer to the sun.
 - b.) The air pressure increases as you go up in the atmosphere.
 - c.) The atmosphere has different temperatures and pressures at different altitudes until it reaches space.
 - d.) None of the above
- 4. Which one of the following powers the earth's water cycle?
 - a.) energy from the Sun
- b.) clouds colliding together
- c.) salts dissolved in water
- d.) the freezing and melting of water
- 5. Most of the water on the earth is found in which of the following locations?
 - a.) oceans

b.) the atmosphere

c.) groundwater

- d.) lakes and rivers
- 6. What word best completes the following sentence?

Ocean currents affect climates because they transfer

from one part of the world to another.

- a.) salt
- c.) heat

b.) sunlightd.) water

Use the table below to answer question 7-8.

	Winter	Spring	Summer	Fall
Place A	20 cm	24 cm	21 cm	20 cm
Place B	0 cm	42 cm	6 cm	5 cm
Place C	2 cm	1 cm	1 cm	2 cm
Place D	35 cm	40 cm	39 cm	37 cm

- 7. Which place has the driest climate?
 - a.) Place A

b.) Place B

c.) Place C

- d.) Place D
- 8. Which place has the wettest climate?
 - a.)-Place A

b.) Place B

c.) Place C

- d.) Place D
- 9. The process of-water changing from a liquid to a gas is known as
 - a.) evaporation

b.) condensation

c.) precipitation

- d.) accumulation
- 10. The process of a water vapor changing back into a liquid is known as
 - a.) evaporation

b.) condensation

c.) precipitation

- d.) accumulation
- 11. Which of the following is one day on Earth?
 - a.) Earth orbiting the Sun 1 time

- b.) the Sun orbiting Earth 1 time
- c.) Earth spinning on its axis 1 time
- d.) the Sun spinning on its axis 1 time

12.	A planet has a shorter day than Earth does. `	Which of the following e	explains why?	
	a.) it is closer to the Sun	b.) It has no mo	oon. s time to rotate on its axis	
	c.) It takes less time to revolve	u.) it takes less	Simile to torare on its axis	
13	Which of the following causes ocean tides?			
15.	a.) Earth's revolution around the Sun	•	b.) Earth's magnetic field	
	c.) the gravitational pull between Earth, the	Sun, and the moon	d.) changes in the atmosp	here
	12 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-la -la con locato		
14.	About how long does one cycle of the Moon	b.) a month		
	a.) a year c.) two weeks	d.) a day		
	c.) the works	,,		
15.	The phases of the Moon are caused by which			
	a.) Earth's orbit around the Sun		ation on its axis	
	c.) the Moon's orbit around the Earth	d.) Earth 8 sha	dow falling on the Moon	
16.	Earth's tilt causes			
	a.) more daylight hours in summer	b.) a bulge at the equator		
	c.) a longer year every fourth year	d.) the phases of the Mo	oon	
I Isa tha	diagram below to answer questions 17-19.			
Ose me	diagram below to answer questions 17-15.	•		
	Α.			
	sun maan surih			
	В.	88682F		
	"我们 我们们"。			
	1 Control 1 (1)			
		noon		
	C.			
17	. Which diagram(s) above best represent(s) t	he position of the Moon,	, during a quarter moon?	
	a.) A	b.) B		
	(c.) C	d.) none of the	e above	
10	. Which diagram(s) above show(s) the Moor	a during a full moon?		
18	a.) A	b.) B-		
	c.) C	d.) none of th	e above	
	·	·		
19	. Which diagram(s) above best represent(s) t	the position of the Moon	during a New Moon?	
	a.) A	b.) B	•	
	c.) C	d.) none of th	e above	
20	. If Earth revolved more slowly in its orbit,	which of the following w	ould be likely to result?	
	a) a longer year	b.) a longer v		
	c.) a longer average day length	(d.) both A &		•
	, , ,	And the state of t	MCCM10Mrs.	
21	. When the lighted portion of the moon seem	ns to get smaller as each	night passes, a	moon is in the
	night sky.	1 \		
	a.) red	b.) waning d.) New		
	c.) waxing	u.) New		

2	22.	When the lighted portion of the Moon seems to g night sky.	et larger as each night passes, a	moon is in the
		a:) red	b.) waning	
		c.) waxing	d.) New	
ì				
2	23.	Earth is the only planet in the Solar System that h		
		a.) an atmosphere	b) oceans	
		c.) volcanoes	d.) mountains	
2	24.	What is the Solar System made of?		
		a.) stars only	b.) the Sun and planets	
		c.) the Sun, planets, and moon	d.) the Sun, planets, Moon, and other sm	all bodies
2	25.	Which of the following holds us to Earth's surface	e?	
		a.) Earth's rotation around its axis	b.) Earth's revolution around the Sun	
		c.) gravity	d.) air pressure	
2	26.	Of the following, which is largest?	Laberthood C'H TV	
		a.) The Sun c.) The Solar System	b.) the Milky Way	
		•	d.) Jupiter	
2	27.	The Model of the Solar revolves around it.	Sytem states that the Earth is at the center an	d that everything
		a.) Big Bang	b.) Geocentric	
		c.) Heliocentric	d.) Galilean	
2	28.	The Model of the Solar revolve around it.	r System states that the Sun is at the center a	nd that all planets
		a.) Big Bang	b.) Geocentric	
		c.) Heliocentric	d.) Galilean	
2	29.		of how the Universe formed.	
		a.) Big Bang	b.) Geocentric	
		c.) Heliocentric	d.) Galilean	
3		The terrestrial planets differ from the gas giants it a.) are rocky and earthlike	n that they b.) are larger	
		c.) rotate much faster	d.) revolve much slower	
,	1 1	•	•	
~	31.	a.) Jupiter is unique because it rotate	b.) Uranus	
		c.) Neptune	d.) Saturn	
,	32.	controls the movement of	•	e ⁱ
-	<i>J</i>	a.) the Sun	b.) the Milky Way	
		c.) the Universe	d.) gravity	
	33.	The changing appearances of the moon from Earl	h are known as Moon .	
		a. Crescents	c. Quarters	
		b. Phases	d. Gibbous	
3	34.	When the Moon's shadow falls on Earth, tempor		
		a. Full Moon b. New Moon	c. Lunar Eclipse d. Solar Eclipse	
		U. IYEW IYIOUII	and the second s	
	35.	A waxing moon phase in which ½ of the lighted a. Waning Crescent b. Q	portion of the moon can be seen from Earth.	
			Vaxing Gibbous	

	36.	As the mass of an object increases, its gra	avitational pull
		 a. Stays the same 	c. decreases
		b. Increases and then decreases-	d increases
	37.	As the distance between two objects incr	eases, the gravitational pull between the objects
		a. Stays the same	c. decreases
		b. Increases then decreases	d. increases
	20	Which of the following planets-is not a to	errestrial planet?
	30.	a.) Mercury	b.) Mars
		c.) Earth	d.) Pluto
	20	All of the gas giants have ring systems.	
	39.		alse)
	40	The smallest rocks in space are called	
ř	40.	a.) meteors	b.) meteoroids
		c.) asteroids	d.) comets
	41	A seliment property when the	Earth is between the Sun and moon.
	41.		b.) Solar
		a.) Annular c.) Lunar	d.) all of the above
		C. J Louise	
,	42.	. Which of the following planets has extre	me temperatures due to a runaway greenhouse effect?
		a.) Mercury	b.) Vemis
		c.) Earth	d.) Mars
	43.	. Early astronomers believed that the Eart	h was the center of the-Universe. This theory is called the
		a.) Big Bang Theory	b.) Heliocentric Model
	Ä	c.) Geocentric Model	d.) Laws of Gravity
	44	Copernicus discovered that everything i	n our solar system revolved around the Sun NOT Earth. This theory is called
		the	
		a.) Big Bang Theory	(b.) Heliocentric Model)
		.c.) Geocentric Model	d.) Laws of Gravity
•	45	. Between what two planets is the asteroid	d belt located?
		a.) Mars and Saturn	b.) Earth and Mars
		c.) Jupiter and Saturn	d.) Mars and Jupiter
	46	6. Most weather occurs in which layer of t	the atmosphere?
	, 0	a. Stratosphere	c. Mesosphere
RICHIES		b. Troposphere	d. Thermosphere
			6.1
	47	7. The ozone layer is located in which layer	er of the atmosphere? c. Mesosphere
		-a. Stratosphere	d. Thermosphere
		b. Troposphero	d. Thormosphore
	48	3. Which is the correct order of atmospher	ric layers beginning at the surface and increasing in altitude?
		a. Stratosphere, Mesosphere, Tro	posphere, Thermosphere
		b. Mesosphere, Troposphere, The	ermosphere, Stratosphere
		c. Troposphere, Mesosphere, Str.	anosphere, Thermosphere
		a. Troposphere, Stratosphere, Me	on the second of
	49	9. Which gas is the <u>second</u> most abundant	
			Argon
		o. Oxygen d. V	Water Vapor
	50	0. What is the atmosphere?	
		a. Layers of Nitrogen	c. a collection of gases surrounding Earth
		 b. Layers of Oxygen 	d. Space

51.	Why is the ozone layer important to life a. It protects Earth from the Sun's	harmful rays.					
		e so that Earth stays warm at night.					
	c. Both A & Bd. None of the above						
52.	What happens to air pressure in the atmo	osphere as you increase in altitude?					
	b. It increases and then decreases						
53.	The Coriolis effect is caused by						
	a. The Earth being round	c. unequal heating of land and water					
	b. The spinning of Earth	d. wind					
54.	Global winds are created as a result of	•					
	a. The unequal heating of land and water						
	b. The unequal heating of Earth d	ue to its spherical shape					
	c. The spinning of Earth						
	d. The atmosphere						
55.	Sea breezes and land breezes are created	l as a result of					
	a. The unequal heating of land an						
٠.	b. The unequal heating of Earth to						
,	 c. The spinning of Earth 						
	d. The atmosphere						
56	Wind AI WAVC trougle from group of	pressure to areas of pressure.					
30.	a. High; low	c. low; high					
	b. Cold; hot	d. hot; cold					
	5. Gold, 1100	d, 101, Void					
57.	wind always has a l	aigh pressure.					
	a. Sea breeze	c. global					
	b. Warm	d.cold					
50	wind always has	a low pressure					
50.	a. Sea breeze						
	b. Warm	d. cold					
59.	Which area on Earth would have the lov	•					
	a. The north pole	c. the South pole					
	b. The peak of a mountain	d. the equator					
60	Narrow belts of high-speed winds that b	slow in the unner Transcribere are called					
.00.	a. Sea breezes.	c. Volcties Vive					
	(b. Jet Streams)	d. Trade Winds					
61.		lobal winds that blow across the United States.					
	a. Sea breezes	c. Westerlies					
	b. Jet Streams	d. Trade Winds					
62	What is a large hody of air that has the	same properties as the area over which it formed called?					
02.	a. Air mass	c. front					
	b. Station model	d. isotherm					
63.		s most likely to occur due to large differences in air temperature and warm air					
	that rises quickly?						
	a. Warm	c. stationary					
	b. Cold	d. occluded					
64.	What is a large, swirling storm that form	as over warm, tropical water called?					
	a. Hurricane	c. blizzard					
	b. Tornado	d. hailstorm					

- 65. Which of the following is a description of a tornado?
 - a. A large, swirling, low-pressure system that forms over the Atlantic Ocean
 - b. A winter storm with winds at least 56 km/h and low visibility
 - c. A violently rotating column of air in contact with the ground
 - d. A boundary between two air masses of different density, moisture, or temperature.
- 66. Which of the following is a description of a blizzard?
 - a. A large, swirling, low-pressure system that forms over the Atlantic Ocean
 - b. A winter storm with winds at least 56 km/h and low visibility
 - c. A violently rotating column of air in contact with the ground
 - d. A boundary between two air masses of different density, moisture, or temperature
- 67. Which of the following is a description of a hurricane?
 - a. A large, swirling, low-pressure system that forms over the Atlantic Ocean
 - b. A winter storm with winds at least 56 km/h and low visibility
 - c. A violently rotating column of air in contact with the ground
 - d. A boundary between two air masses of different density, moisture, or temperature.

SHORT ANSWER: Answer ON YOUR OWN PAPER!! You MUST answer ANY THREE of the following.

68. Diagram the layers of the atmosphere starting where we live and going up into space. Be sure to include one fact about each layer that distinguishes it from the others.

From Earth to Rising Altitudes 1. Troposphere 3. Mesosphere 69. Draw a diagram of the ocean floor. Label the features.

- 70. Write a paragraph that explains how water is distributed across the planet. Be sure to mention the percentages of water on earth, where the water is located, and the percentage of fresh water on the planet.
- 71. In a paragraph, explain why the earth will ALWAYS have global winds. Be sure to mention differences in temperature and pressure. EXPLAIN!!
- 72. In a paragraph, compare and contrast tornadoes, hurricanes, and thunderstorms.

Confinental Continental Slope Volennic Island

V Shalf

Ocean
Trench

Abyssal Mid-Ocean

Plain Ridge