Wr. Dixon Key

## 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.

1	Which	one of the	following	does NOT	describe	weather?
	P) IIICII	OHO OF THE	YOUGH HITE	40001101	COULTRE	ri outilog :

- 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.) oceaus

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	s. Which of the following explains why?	
	a.) it is closer to the Sun	<ul><li>b.) It has no moon.</li><li>d.) It takes less time to rotate on its axis</li></ul>	
	c.) It takes less time to revolve	d,) it throw loss will to to to the confidence of the confidence o	
13	Which of the following causes ocean tide:	s?	
15.	a.) Earth's revolution around the Sun	b.) Earth's magnetic field	
	c.) the gravitational pull between Earth, the	ne Sun, and the moon d.) changes in the atmosph	nere
	· ·		
14.	About how long does one cycle of the Mo	oon's phases last?	
	a.) a year	a month	
	c.) two weeks	d:) a day	
1.5	The phases of the Moon are caused by wh	nich of the following?	
13.	a.) Earth's orbit around the Sun	b.) Earth's rotation on its axis	
	c) the Moon's orbit around the Earth	d.) Earth's shadow falling on the Moon	
		,	
	Earth's tilt causes	<u> </u>	
	a.) more daylight hours in summer	b.) a bulge at the equator	
	c.) a longer year every fourth year	d.) the phases of the Moon	
T Teo +leo	diagram below to answer questions 17-19		
OSE IIIE	magram below to answer decadons 17-13	•	
	Α.		
	AND THE PROPERTY OF THE PARTY O		
	run mag edilik		
	В.	•	
	C.		
17	Which diagram(s) above best represent(s	s) the position of the Moon, during a quarter moon?	
	a.) A	b.) B	
	#0)*O	d.) none of the above	
18	. Which diagram(s) above show(s) the Mo		
	a.) A	b)B-	
	c.) C	d.) none of the above	
10	Which discusse(s) shows best represent	s) the position of the Moon during a New Moon?	
15	. with diagramits) above best represent	b.) B	
	c.) C	d.) none of the above	
	6.90		
20	). If Earth revolved more slowly in its orbi	it, which of the following would be likely to result?	
	a) a longer year	p) a jouser winter	
	c.) a longer average day length	(d) both A&B)	
		The state of the s	
2		eems to get smaller as each night passes, a	moon is in the
	night sky.	h America	
	a) red	d) New	
	c.) waxing	d.) New	

22	- ·	seems to get larger as each night passes, a moon is in	the
	night sky.	h \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	a.) red c.) waxing	b.) waning d.) New	
	, 0		
23	. Earth is the only planet in the Solar Sy	rstem that has	
	a.) an atmosphere	b) oceans	
	c.) volcanoes	d.) mountains	
24	. What is the Solar System made of?		
24	a.) stars only	h ) the Com and planets	
		b.) the Sun and planets d.) the Sun, planets, Moon, and other small bodies	
	c.) the Sun, planets, and moon	d.) the Suit, planets, whom, and other small bothes	
25	. Which of the following holds us to Ea	rth's surface?	
	a.) Earth's rotation around its axis	b.) Earth's revolution around the Sun	
	c.) gravity	d.) air pressure	
26	. Of the following, which is largest?	·	
	a.) The Sun	b) the Milky Way	
	c.) The Solar System	d.) Jupiter	
27	. The Model (	of the Solar Sytem states that the Earth is at the center and that everythin	g
	revolves around it.	•	_
	a.) Big Bang	-be) Geogeopric	
٠	c.) Heliocentric	d.) Galilean	
28		of the Solar System states that the Sun is at the center and that all plane	ts
	revolve around it.		
	a.) Big Bang	b.) Geocentric	
	e) Heliocentric	d.) Galilean	
29	is the cu	rrent theory of how the Universe formed.	
	a.) Big Bang	b.) Geocentric	
	c.) Heliocentric	d.) Galilean	
30	. The terrestrial planets differ from the	gas giants in that they	
	a) are rocky and earthlike	b.) are larger	
	e.) rotate much faster	d.) revolve much slower	
.31	a.) Jupiter is unique bec	ause it rotates sideways on its axis.	
	a.) Jupiter	b) Urams	
	c.) Neptune	d.) Saturn	r
32		ovement of all objects in space.	
	a.) the Sun	b.) the Milky Way	
	c.) the Universe	d.) gravity	
33	3. The changing appearances of the moo	n from Earth are known as Moon	
-	a. Crescents	c. Quarters	
	bases	d. Gibbous	
34	. When the Moon's shadow falls on Ea	rth, temporarily blocking out the sunlight.	
	a. Full Moon	c. Lunar Eclipse	
	b. New Moon	d Solar Eclipse	
3.5	. A waxing moon phase in which ½ of	the lighted portion of the moon can be seen from Earth.	
	a. Waning Crescent	b. Quarter	
	Full	d. Waxing Gibbous	

	36.	As the mass of an object increases, its gra-	
		<ul> <li>a. Stays the same</li> </ul>	c. decreases
		<ul> <li>b. Increases and then decreases</li> </ul>	d increases
		A she distance between two objects incre	ases, the gravitational pull between the objects
	51.		codecreases
		a. Stays the same	d. Increases
		b. Increases then decreases	d. mereases
	• •	more to the time to the termination of the	mostrial planet?
	38.	Which of the following planets is not a ter	b.) Mars _
		a) Mercury	d.) Pluto
		c.) Earth	d.) Fluto
	20	All of the gas giants have ring systems.	•
	37.		ilse)
2	40.	The smallest rocks in space are called	
7		a.) meteors	ab.) meteoroids
		c.) asteroids	d.) comets
		,	
	41.	A eclipse occurs when the E	Earth is between the Sun and moon.
		a.) Annular	b.) Solar
		c) Lucar	d.) all of the above
Ì		C. C. C. STORMAN CO. C.	
	42.	Which of the following planets has extrem	me temperatures due to a runaway greenhouse effect?
		a.) Mercury	b) Venus
		c.) Earth	d.) Mars
			a control of the control of the control of the
	43.		was the center of the Universe. This theory is called the
		a.) Big Bang Theory	b.) Heliocentric Model
	4	g) Geocestric Model	d.) Laws of Gravity
			This theory is called
	44.		our solar system revolved around the Sun NOT Earth. This theory is called
		the	Ab) Heliocentric Model)
		a.) Big Bang Theory	d.) Laws of Gravity
		c.) Geocentric Model	d.) Laws of Clavity
Þ	45	. Between what two planets is the asteroid	half located?
	43		b.) Earth and Mars
		a.) Mars and Saturn	d.) Mars and Jupiter
		c.) Jupiter and Saturn	All Attendance and the second
	46	. Most weather occurs in which layer of th	ne atmosphere?
	70	a 344000000	c. Mesosphere
		b. Troposphere	d. Thermosphere
-	TAXABLE PARTY.	The state of the s	
	47	. The ozone layer is located in which layer	r of the atmosphere?
	• '	-a. Stratosphere	c. Mesosphere
		< b. Propospireza	d. Thermosphere
			<u>.</u>
	48	Which is the correct order of atmospheri	ic layers beginning at the surface and increasing in altitude?
		a. Stratosphere, Mesosphere, Troj	posphere, Thermosphere
		b. Mesosphere, Troposphere, The	rmosphere, Stratosphere
		c. Troposphere, Mesosphere, Stra	tosphere, Thermosphere
		A. Troposphere, Stratosphere, Me	sosphere, Thermosphere
		Property of the second	-
	49	Which gas is the second most abundant	gas in the atmosphere?
			rgon
			Vater Vapor
			-
	50	). What is the atmosphere?	
		a. Layers of Nitrogen	c, a collection of gases surrounding Earth
		<ul> <li>b. Layers of Oxygen</li> </ul>	d. Space

51.	Why is the ozone layer important to life				
	<ul> <li>a. It protects Earth from the Sun's</li> </ul>				
	b. It traps in heat like a greenhous	e so that Earth stays warm at night.			
	c. Both A & B				
	d. None of the above				
52.	What happens to air pressure in the atmo	osphere as you increase in altitude?			
	a. If decreases	c. It increases			
	b. It increases and then decreases	d. It decreases and then increases			
	m 0 11 m 11				
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			
	o. the shiring of cam	d. wind			
54.	Global winds are created as a result of	•			
	a. The unequal heating of land and water				
	<ul> <li>b. The unequal heating of Earth d</li> </ul>	ue to its spherical shape			
	<ul> <li>c. The spinning of Earth</li> </ul>				
	d. The atmosphere	•			
55	Sea breezes and land breezes are created	lar a romalt of			
JJ.	a. The unequal heating of land an				
	b. The unequal heating of Earth to				
,	c. The spinning of Earth	o to opherical onepe			
	d. The atmosphere				
	•				
56.	Wind ALWAYS travels from areas of _	pressure to areas ofpressure.			
	a. High; low	c. low; high			
	b. Cold; hot	d. hot; cold			
57	wind always has a h	sick massaus			
57.	a. Sea breeze wind always has a h	ngn pressure. c. global			
	b. Warm	d cold			
	b. warm				
58.	wind always has	a low pressure.			
		c. land breeze			
	b. Warra	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	low in the upper Troposphere are called			
	a. Sea breezes .	COMMENTED VIOLEN			
	6 Jet Spreams 2	d. Trade Winds			
		•			
61.		lobal winds that blow across the United States.			
	a. Sea breezes	westerlies .			
	b. Jet Streams	d. Trade Winds			
62	What is a large body of air that has the s	same properties as the area over which it formed called?			
02.	a. Air mass	c. front			
	b. Station model	d. isotherm			
	o, siagon moder	d. isotilem			
63.	At which type of front are thunderstorm	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			
	What is a large and the second section				
04.	What is a large, swirling storm that form				
	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/n 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.

5. Wesusphere 3. Here 3. Troposphere 3. Stratus phore 4. Theres.

- 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.

Continental Slope Volcanic Island

V Shelf Continental Slope Volcanic Island

Sea Wounts

Abyssal Mid-Ocen

Plain Ridge