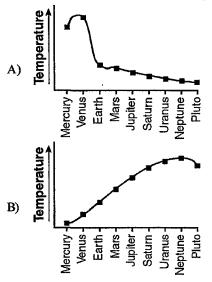
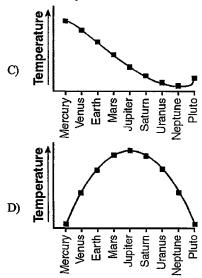
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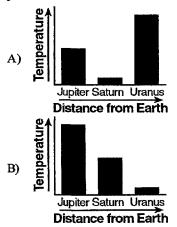
- 1) Which statement best describes the geocentric model of our solar system?
 - A) All planets revolve around the Sun.

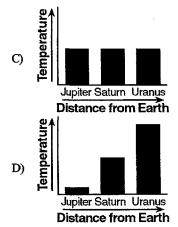
- C) All planets except the Earth revolve around the Sun.
- B) The Earth is located at the center of the model.
- D) The Sun is located at the center of the model.
- 2) Which graph best illustrates the average temperatures of the planets in the solar system?





3) Planetary temperatures were recorded by the Voyager I space probe as it traveled from the Earth past the outer planets Jupiter, Saturn, and Uranus before leaving the solar system. Which graph best represents the relationship between the temperature of the planets and their distance from the Earth?

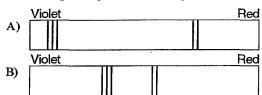


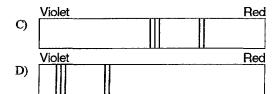


4) The diagram below represents a standard darkline spectrum for an element. The spectral lines of this element are observed in light from a distant galaxy.



Which diagram represents these spectral lines?





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5) The presence of which atmospheric gas causes the high temperature of Venus? A) hydrogen (H₂) C) oxygen (O2) B) carbon dioxide (CO₂) D) nitrogen (N2) Questions 6 and 7 refer to the following: The graphs below show the composition of the atmospheres of Venus, Mars, Earth, and Jupiter. H₂SO₂ He 02 CH₄, 16% Ar, O_2 21% Kr. Xe 2.5% H₂O, O₂ NH_4 12,CH₄ Traces Traces Traces .5% CO_2 CO₂ 96% N₂ 78% 96% Venus Mars Earth **Jupiter** 6) Which gas is present in the atmospheres of Venus, Earth, and Mars, but is not present in the atmosphere of Jupiter? A) argon (Ar) B) water vapor (H₂O) C) methane (CH₄) D) hydrogen (H₂) 7) Which planet has an atmosphere composed primarily of CO₂ and a period of rotation greater than its period of revolution? B) Earth C) Venus D) Mercury A belt of asteroids is located an average distance of 503 million kilometers from the Sun. Between which two planets is this belt located? A) Mars and Earth B) Jupiter and Saturn C) Saturn and Uranus D) Mars and Jupiter According to current data, the Earth is apparently the only planet in our solar system that has A) liquid water on its surface C) an axis of rotation B) an orbiting moon D) atmospheric gases Compared to the distances between the planets of our solar system, the distances between stars are usually A) much less B) much greater C) about the same 11) Which planet's orbital shape would be most similar to Jupiter's orbital shape? B) Uranus D) Pluto A) Venus C) Mercury Impact craters are more obvious on the Moon and Mercury than on Earth because A) Earth is younger than Mercury or the Moon B) meteorites have not struck Earth C) all meteorites burn up in Earth's atmosphere D) weathering processes on Earth have removed most craters The diagram below shows the standard dark-line spectrum for an element. The spectral lines of the same element are observed in light from four distant galaxies. Green Yellow Orange Red Violet Blue Which spectral lines most likely represent the galaxy farthest from the Earth? Red Violet Violet Red A) C) Violet Red Violet Red B) D)

		1145 - 1 - Pa					
14)	14) Why do rock samples brought back from the Moon show no signs of chemical wea	thering?					
		ares on the Moon are very cold. a has no gravity.					
15)							
ĺ	A) lack of biological activity on the Moon C) large quan	tities of water in the lunar "seas" Fan atmosphere on the Moon					
16)	•	~					
	A) P S	E					
	B) S P	P S					
17)	17) In which type of model are the Sun, other stars, and the Moon in orbit around the E	arth?					
	A) heliocentric model B) tetrahedral model C) geocentric	model D) concentric model					
18)	, ,	•					
	 A) The clouds of Venus are highly reflective. B) Venus has a slow rate of rotation. C) The atmosphere of Venus contains a high percentage of carbon dioxide. D) Venus has many active volcanoes. 	•					
19)	•						
~	A) Venus B) Mars C) Earth	D) Saturn					
20)		C) younger than the universe					
21)		· · · -					
21)	The symbols below represent the winky way guiday, the solar system, the buil, and	tille dillyerse.					
	KEY:						
	= Milky Way Glaxy ● = Sun						
	= Solar System = Unive	arco.					
	= Office	5156					
	Which arrangement of symbols is most accurate?						
	A) (C) (E						
	B) • D) •	i					

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	•	1145 - 1 - Page
22)	 According to the Earth Science Reference Tables, three planets known as g are 	•
		nus, Uranus, and Jupiter
	B) Venus, Neptune, and Jupiter D) Jup	piter, Saturn, and Venus
23)		
		laxies move randomly.
24)	· · · · · · · · · · · · · · · · · · ·	laxies move toward one another.
24)	•	matter in the Universe is stationary
	-	laxies are evenly spaced throughout the Universe
25)		•
,	A) remain the same B) decrease	C) increase
26)	,	,
,	, ,	,
	Standard Spectrum	···············
	reference	
	lines	
	10 ⁻⁷ wavelength in meters	10-6
	Spectrum from a Distant 0	Galaxy
	, ,	
	reference lines	
	L LI 10 ⁻⁷ wavelength in meters	I 10 ⁻⁶
	To wavelengthin motors	
	If the spectral lines produced by the light from a distant galaxy are	
	A) shifted toward the blue, the galaxy is moving away from us	
	B) shifted toward the red, the galaxy is moving towards us.C) shifted toward the blue, the galaxy is stationary	
	D) are shifted toward the red, the galaxy is moving away from us	
27)	27) In what way are the planets Mars, Mercury, and Earth similar?	
	A) They have the same period of revolution.	
	B) They have elliptical orbits with the Sun at one focus.	
	C) They exert the same gravitational force on each other.D) They are perfect spheres.	
28)		
20)		iverse, solar system, Milky Way
		ilky Way, solar system, universe
29)	29) A comparison of the age of the Earth obtained from radioactive dating and shifts suggests that	the age of the universe based on galactic Doppler
		e two dating methods contradict one another
	,	e Earth is about the same age as the universe
30)	•	
	A) depends only on the chemical composition of the atmosphere of each p	planet
	B) decreases with greater distance from the SunC) increases with greater distance from the Sun	
	D) has no relationship to the distance from the Sun	

•		