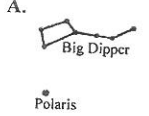
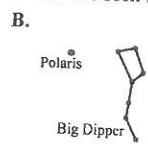
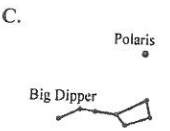
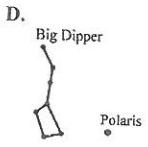


UNIT TEST—SKY SCIENCE

1. The planet Jupiter can be seen when looking through a telescope because of light that is
 - A. emitted
 - B. reflected
 - C. refracted
 - D. absorbed
2. Rocky and metallic objects that orbit the sun and are seen by reflected light are
 - A. asteroids
 - B. satellites
 - C. meteors
 - D. comets
3. Which diagram represents how the Big Dipper would be seen in Alberta during June?
 - A. 
 - B. 
 - C. 
 - D. 

4. When looking up to the night sky you are able to see
 - A. the Big Dipper and the Little Dipper during the winter months and Cassiopeia during the summer months
 - B. different constellations at different times, though you can see some constellations all year long
 - C. the same stars and constellations, in approximately the same positions, all year long
 - D. different constellations at different times

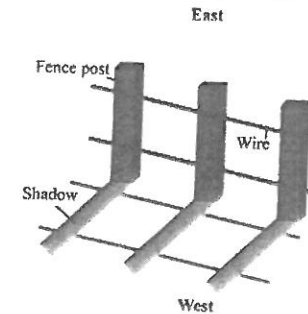
Use the following information to answer the next question.

While camping, Amanda and her mother were locating constellations in the night sky. Amanda noticed that, as time passed during the night the constellations appeared to move.

5. The constellations appeared to move because of the Earth's
 - A. tilt on its axis
 - B. weather systems
 - C. rotation on its axis
 - D. orbit around the sun

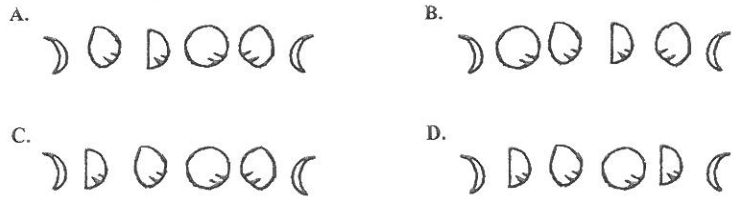
Use the following information to answer the next two questions.

Mark lives on a farm. He liked to think of the fence posts as sundials and he tried to tell the time based on the angle of the post's shadow. The following diagram shows fence posts and the shadows thrown from them at a certain time of during the day.



6. When the shadow is pointing to the west, what time of day is it?
 - A. 8 o'clock in the morning
 - B. 12 o'clock noon
 - C. 4 o'clock in the afternoon
 - D. 8 o'clock in the evening
7. When studying seasonal changes, Mark noted that the longest day of the year occurs on the
 - A. autumnal equinox
 - B. summer solstice
 - C. vernal equinox
 - D. winter solstice

8. The set of drawings that **correctly** orders the phases of the moon is:



Use the following table for the next two questions.

Planet	Day Length (approximated Earth time)	Year Length (approximated Earth time)
Earth	24 hours	365 days
Mars	24 hours	687 days
Jupiter	10 hours	12 years
Neptune	16 hours	165 years
Mercury	59 days	88 days
Venus	243 days	225 days
Saturn	10 hours	30 years
Uranus	17 hours	84 years

9. Shane's class was studying the planets. They studied the chart above. From the year length information supplied, Shane determined that the four planets closest to the sun are

- A. Mercury, Jupiter, Saturn, and Uranus
- B. Jupiter, Neptune, Uranus and Saturn
- C. Earth, Venus, Mercury, and Mars
- D. Earth, Venus, Mercury, and Jupiter

10. Using the chart above, Shane and Carly worked together to discover that the planet second furthest from the sun is

- A. Neptune
- B. Uranus
- C. Jupiter
- D. Saturn

11. Shane and Carly also studied information about the planets. Carly noted in her science journal that Mars is

- A. a small rocky planet covered with craters
- B. a giant gas planet, largely made up of hydrogen and helium
- C. nick-named the Red Planet, has permanent polar ice caps
- D. a ringed giant that many consider to be the most beautiful of the planets

12. In his report, Shane stated that the hottest of all the planets, and the one that is sometimes referred to as Earth's sister, is

- A. Mars
- B. Venus
- C. Neptune
- D. Mercury

13. Natural satellites that orbit many planets are commonly referred to as

- A. moons
- B. comets
- C. storm systems
- D. meteor showers

14. Much of what we have learned about the outer solar system was gained through the use of two pieces of research equipment named the 'Pioneer' and the 'Voyager'. The 'Pioneer' and the 'Voyager' are well-known

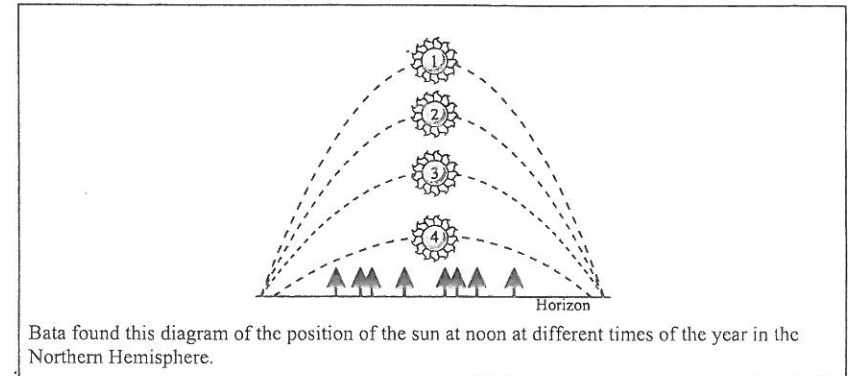
- A. space probes
- B. space shuttles
- C. space stations
- D. powerful telescopes

15. When discussing galaxies and our solar system, Amanda learned that

- A. the Milky Way galaxy lies outside of our universe
- B. the Milky Way galaxy is smaller than our solar system
- C. our solar system is located inside the Milky Way galaxy
- D. our solar system is located just outside of the Milky Way galaxy

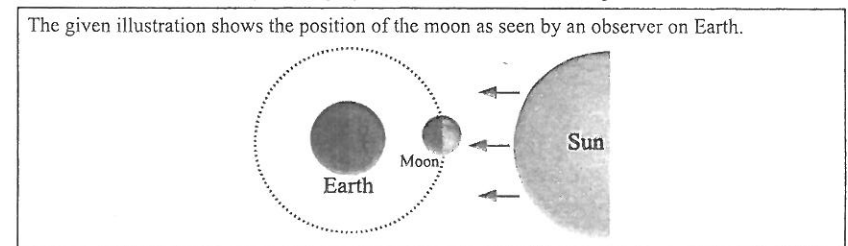
16. The list that correctly orders the following from smallest to largest is
- planet, solar system, galaxy, universe
 - planet, galaxy, solar system, universe
 - solar system, galaxy, universe, planet
 - planet, solar system, universe, galaxy
17. Our knowledge of the sun, its surrounding planets and their moons represents knowledge that informs us about
- most of the universe
 - a tiny part of our universe
 - most of our atmosphere
 - a tiny part of our solar system
18. Which of the following can be used to safely view the sun?
- Dark sunglasses
 - Solar viewer
 - Binoculars
 - Telescope
19. Which of the following instruments could be used to chart the movement of the sun?
- Spotting scope
 - Shadow stick
 - Thermometer
 - Barometer

Use the following information to answer the next question.



20. Bata reasoned that the position of the sun that would **most** closely represent the sun's position on December 21 would be
- position 1
 - position 2
 - position 3
 - position 4

Use the following information to answer the next question.



21. Which phases of the moon appears approximately two weeks after the phase shown in the diagram?
- Full moon
 - New moon
 - First quarter
 - Waxing crescent