

Astronomy Unit ~~Test~~ Test (Section One)

Post

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Which of these would be shorter if Earth rotated faster?
a. years
b. months
c. weeks
d. days
- _____ 2. How long does Earth take to orbit once around the sun?
a. day
b. week
c. month
d. year
- _____ 3. How long does Earth take to rotate once on its axis?
a. day
b. week
c. month
d. year
- _____ 4. About how long does the moon take to orbit the Earth?
a. day
b. week
c. month
d. year
- _____ 5. Which of the following is the cause of the change of seasons?
a. the distance of a place from the Equator
b. prevailing winds blowing across land or water
c. the tilt of the Earth's axis
d. the rotation of the Earth
- _____ 6. What evidence supports the current theory about our moon's origin?
a. The lunar *maria* was formed from old lava flows.
b. Lunar rocks are similar to Earth's mantle.
c. The moon is covered with impact craters.
d. We have identified the impacting body.
- _____ 7. What causes the phases of the moon?
a. the relative positions of the moon, Earth, and the sun
b. the tilted orbit of the moon
c. the moon's period of revolution just equals its period of rotation
d. sunlight reflecting off Earth's surface
- _____ 8. What happens during a total solar eclipse?
a. The shadow of Earth falls on the moon.
b. A thin ring of the sun shows through.
c. The moon completely covers the sun.
d. The moon is about the same size as the sun.
- _____ 9. What is the current theory about the origin of the moon?
a. The moon was a large asteroid captured by Earth's gravity.
b. The moon resulted when a large body struck Earth.
c. The moon formed at the same time from the same materials.
d. The moon spun off from a rapidly spinning Earth.

Name: _____

ID: A

- _____ 10. Why do we always see the same side of the moon from Earth?
- because its phases are constantly changing
 - because its period of rotation equals its period of revolution
 - because half of the moon is always in sunlight
 - because the moon changes its position relative to Earth
- _____ 11. Why don't solar and lunar eclipses occur every month?
- The moon's orbit is an ellipse.
 - The moon's distance from Earth changes.
 - The shadows do not line up correctly.
 - The moon's orbit is tilted.
- _____ 12. Which statement describes what is happening at high tide?
- The moon is revolving more quickly than the Earth is rotating.
 - The moon's gravity is dragging water away from the equator.
 - The moon's gravity is pulling ocean water into a bulge.
 - The sun's gravity pulls with more force than the moon's gravity.
- _____ 13. Which statement explains why the moon's gravity is able to create high and low tides?
- The moon is revolving more quickly than the Earth is rotating.
 - The moon is revolving more slowly than the Earth is rotating.
 - Some parts of the Earth never face directly on the sun and moon.
 - The moon is revolving at the same speed that the Earth is rotating.
- _____ 14. Spring tides and neap tides occur in patterns governed by
- changes in the force of the Earth's gravity.
 - the type of ocean currents near where the tides occur.
 - whether the gravity of the sun or moon exerts a stronger pull.
 - the relative positions of the Earth, moon, and sun (the phases of the moon).
- _____ 15. How often do tides rise and fall?
- | | |
|----------------|---------------------|
| a. once a day | c. every 14 days |
| b. twice a day | d. every 24 h, 50 m |
- _____ 16. Which of these takes exactly 24 hours?
- one rotation of the Earth
 - one revolution of the moon around the Earth
 - one period between two high tides
 - one period between two full moons
- _____ 17. The North Pole points away from the sun during the
- | | |
|-----------|-----------|
| a. summer | c. spring |
| b. winter | d. fall |
- _____ 18. During what phase of the moon is more than half the moon visible?
- | | |
|--------------------|------------------|
| a. waxing crescent | c. gibbous |
| b. waning crescent | d. first quarter |

Name: _____

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True/False

Indicate whether the sentence or statement is true or false.

- _____ 19. During the winter, the sun's rays are slanted.
- _____ 20. The Earth's seasons are caused by the Earth's tilted axis.
- _____ 21. In January, the Earth is farthest from the sun.
- _____ 22. The Northern and Southern hemispheres have the same seasons.
- _____ 23. An equinox occurs on a day with 12 hours of daylight and 12 hours of darkness.
- _____ 24. The reason we always see the same side of the moon is because the moon rotates at the same speed at which it revolves.
- _____ 25. A lunar eclipse occurs when the earth is between the sun and the moon.