

Please Note: It is recommended that you save your response as you complete each question.


Question 1

(1 point)  **Save**

As seen from Iowa City over 6 hours during the night, a star 15 degrees from the North star will appear to

- rise and set
- move around a complete circle
- move around 1/2 of a circle
- move around 1/4 of a circle


Question 2

(1 point)  **Save**

If the Earth's equator were in the plane of the ecliptic, which of the following phenomena would not occur?

- the seasons
- the appearance of different constellations at different times of year
- the appearance of the planet Mercury in the sky
- day and night


Question 3

(1 point)  **Save**

As viewed from Earth, the angular size of Sun is closest to

- 30 arcminutes
- 5 degrees
- 2 degrees
- 5 arcminutes

Question 4


(1 point)  **Save**

On which date(s) is the Sun in the ecliptic plane?

- June 21
- All days
- March 21 and September 21

December 21


Question 5

(1 point)  **Save**

On June 21 at midnight an observer at the north pole sees the Sun

- At the zenith
- At an elevation 23.5 degrees below the horizon
- On the horizon
- At an elevation 23.5 degrees above the horizon


Question 6

(1 point)  **Save**

At approximately what time does the full moon set?

- noon
- sunset
- sunrise
- midnight


Question 7

(1 point)  **Save**

A solar eclipse can only occur when the Moon is


- setting
- new
- rising
- full

Question 8

(1 point)  **Save**


In Ptolemy's Earth-centered model of the solar system which is not possible

- explanation of the seasons
- explanation of the motions of the planets
- seeing Venus in full phase
- retrograde motion of planets on the sky

Question 9(1 point)  **Save**

Retrograde motion is explained in the Copernican model of the solar system as

- when a planet slows down when at large distances from the Sun
- a result of planets moving in circles in constant speed around the Sun
- a dance move
- an illusion that takes place when a planet is at its maximum distance from the Sun

Question 10(1 point)  **Save**

One proof by Galileo that the Copernican model of the solar system is correct was

- sunspots on the Sun were likely the shadows of planets
- Venus is never more than 47 degrees from the Sun
- Venus goes through phases like the Moon does
- Venus is never seen in opposition

Save All Responses

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