

QUESTION 1



Select all the correct answers.

Nicholas Copernicus made some observations about the motion of the planets. Select the true ones.



The looping motion of planets like Mars can be explained if Earth and the planets are orbiting the Sun.



He calculated the orbit of Neptune and found that it goes around Earth.



He proposed the Earth-centered model which is that Earth is at the center of the Universe.



Mercury and Venus are always close to the Sun which would not happen if they were orbiting Earth.



He discovered Pluto which has initiated a scientific debate later on being classified as a planet within the Solar system or not.



He explained the orbit of Uranus can be explained if it is orbiting Earth.

QUESTION 2



Select all the correct answers.

Why was Copernicus' model not completely right about?



The model assumed that the orbits of the planets are elliptical.



The model assumed that the orbits of the planets are circular.



The model set the Sun at the center of the whole Universe as well as the solar system.



The model did not predict the orbit of Venus.



The model set the Earth at the center of the whole Universe as well as the solar system.



The model did not predict the orbit of Jupiter's moons.

QUESTION 3



Drag the correct option to fill in the blanks.

Match each model of the universe with the scientist(s) who proposed it.

Model	Developed by
Sun-centered model	Copernicus ✓
Earth-centered model	Ancient Greek philosophers ✓

- ↕

 Isaac Newton
- ↕

 Tycho Brahe
- ↕

 Ancient Roman philosophers
- ↕

 Michael Faraday

QUESTION 4



Select the correct answer.

Which is the best description of the model developed in ancient Greece?

- ☐

 The Earth's orbit describes a circle.
- ☐

 The Earth is at the center of the Solar System.
- ☒

 The Earth is at the center of the Universe. ✓
- ☐

 The Sun is at the center of the planets.

QUESTION 5



Choose from the words to complete the sentence.

resolves	rotates	trajectory	
axis	slide	plane	

The stars seem to move in a circle in the night sky because the Earth rotates on its own axis

QUESTION 6

Select all the correct answers.

What was the old model of the Universe, before Copernicus made his discoveries?

- ☒ The Sun with the planets other than Earth revolve around Earth.
- ☐ The Sun is in the middle of the Solar system but the planets do not revolve around it.
- ☐ The Earth is in the middle of the Solar system but the planets do not revolve around it.
- ☐ Planets revolve around Earth and Earth revolves around the Sun.
- ☒ The Earth is in the middle of the Universe.
- ☐ The Sun is in the middle of the Universe and everything revolves around it.

QUESTION 7

Select all the correct answers.

In order to make accurate astronomical predictions, what did Tycho Brahe require of the measurements made?

- ☐ It must be made intermittantly.
- ☐ There are no specific regulations that can make accurate predictions.
- ☒ It must be made over long periods of time.



It must be made six times a day.



It must be made from three different locations.



It must be made from one location.



QUESTION 8



Select the correct answer.

Which planet did Brahe study that enabled Kepler to discover the laws of planetary motion?



Venus



Saturn



Mars



Earth

QUESTION 9



Select the correct answer.

Which of the following of Copernicus' observations was later found to be inaccurate?



The Earth revolves around the Sun.



Mercury and Venus have orbits closer to the Sun.



All planets revolve around the Sun.



All planets have circular orbits.



QUESTION 10



Choose from the words to complete the sentence.

pole	circular	focus	tangential	elliptical	center	
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The Sun-centered model by Copernicus stated that the Sun is at the **center** of the Universe and the planets orbit it in **circular** motion.

QUESTION 11



Select the correct answer.

Which model do you think the term "heliocentric model" refers to?

- ☐ Earth-centered model
- ☐ black holes-centered model
- ☐ Mars-centered model
- ☒ Sun-centered model

QUESTION 12



Select the correct answer.

Knowing that geo- is a Greek root that means Earth, which of the followings is the model of Universe developed in Greece?

- ☐ geographic model
- ☐ geostationary model
- ☐ heliocentric model
- ☒ geocentric model

QUESTION 13



Select the correct answer.

Who was the scientist credited with the Sun-centered model?

☐ Isaac Newton

☐ Tycho Brahe

☒ Nicholas Copernicus



☐ Galileo Galilei

QUESTION 14



Choose from the words to complete the sentence.

lunar eclipse

meteor shower

solar eclipse

doppler shifts

A solar eclipse



inspired the Danish astronomer Tycho Brahe to a career in astronomy.

QUESTION 15



Choose from the words to complete the sentence.

Egypt

Syria

China

Greece

The Earth-centered model is thought to have been developed in ancient

Greece



QUESTION 16



Drag and drop the labels into the space on the image.

↕ Brahe's model

↕ Earth's orbit

↕ The Kuiper belt

↕ Sun-centered model

Earth centered model ✓

QUESTION 17

Drag and drop the labels into the correct space on the image.

↕ tangential orbit

↕ Sun's orbit

↕ moving spherically

↕ Earth-centered model

Sun-centered model ✓

bit of ✓

orbit ✓