

Name: _____

Intro Astro Lab Quiz: Lab 5: Planets

Instructions: There are 10 multiple-choice problems each worth 1 marks for a total of 10 marks altogether. Choose the **BEST** answer, completion, etc., and **DARKEN** fully the appropriate circle on the table provided below. Read all responses carefully. **NOTE** long detailed responses won't depend on hidden keywords: keywords in such responses are bold-faced capitalized. This is a 10 minute quiz.

Answer Table for the Multiple-Choice Questions

	a	b	c	d	e		a	b	c	d	e
1.	O	O	O	O	O	6.	O	O	O	O	O
2.	O	O	O	O	O	7.	O	O	O	O	O
3.	O	O	O	O	O	8.	O	O	O	O	O
4.	O	O	O	O	O	9.	O	O	O	O	O
5.	O	O	O	O	O	10.	O	O	O	O	O

- Before circa 1500, everyone in the context of ancient-Greek-derived astronomy (i.e., in European and the Mideastern astronomy) and perhaps nearly everywhere else believed that the Solar System was:
 - heliocentric.
 - Venusocentric.
 - geocentric.
 - Martiocentric.
 - egocentric.
- “Let’s play *Jeopardy!* For \$100, the answer is: It is a circular planetary orbit that orbits on a larger circular orbit that is called the deferent. The center of this circular planetary orbit is just an empty point in space.”

What is a _____, Alex?

 - bicycle
 - carbon cycle
 - ring world
 - torus
 - epicycle
- “Let’s play *Jeopardy!* For \$100, the answer is: He created a complete epicycle model for the Solar System which continued to be used for astronomical prediction and was somewhat believed in for 13 centuries.”

Who is _____, Alex?

 - Aristotle (384–322 BCE)
 - Berosos, priest of Bel Marduk (3rd century BCE)
 - King Ptolemy I (c. 367–c. 283 BCE)
 - Cleopatra (69–30 BCE)
 - Ptolemy (circa 100–175 CE)
- The epicycle theory has two major deficiencies. It is _____ and it gives _____ of the solar system.
 - wrong; no uniquely good model
 - right; a uniquely good model
 - right; no uniquely good model
 - wrong; a uniquely good model
 - right; two uniquely good models
- The time interval from Ptolemy to Copernicus is about _____ years.
 - negative 400
 - 250
 - 1200
 - 1400
 - 2000
- Copernicus’ contemporaries rejected heliocentrism mainly because they could not believe in a/an:
 - unmoving Earth.
 - moving Earth.
 - moving Moon.
 - unmoving Moon.
 - moving Mars.
- The heliocentric theory allowed Copernicus to predict the locations of all the planets in units of the:

- a) meter. b) kilometer. c) astronomical unit. d) mile. e) light-year.
8. When two astro-bodies are aligned on the sky, they are in _____ and when they are 180° apart on the sky, they are in _____.
- a) conjunction; antiparallel b) conjunction; opposition c) conjunction; opposition
d) conjunction; opposition e) parallel; antiparallel
9. A superior planet—a lordly, proud planet—is in inferior conjunction:
- a) never. b) always when in conjunction. c) when in opposition.
d) when in quadrature. e) when in syzygy.
10. Eastern/western quadrature occurs when a superior planet is _____ the Sun.
- a) as far west/east as it can be on a given orbit from b) as far east/west as it can be on a given orbit from c) at 90° east/west from d) at 90° west/east from e) in opposition to/conjunction with