

PRE-EXAM #1 – Astrology 2015 S1 (2pts each)

2. You write your home address in the order of street, town, state, and so on. Suppose you were writing your cosmic address in a similar manner. Which of the following is the correct order?

- A) Earth, Milky Way, Solar System, Local Group, Universe
- B) Earth, Solar System, Local Group, Universe, Milky Way
- C) Earth, Solar System, Milky Way, Local Group, Universe
- D) Solar System, Earth, Local Group Milky Way, Universe
- E) Earth, Solar System, Universe, Milky Way, Local Group

3. Which of the following astronomical systems is/are held together by gravity?

4. From the model of the solar system on the “South Wall” of Rm 945, estimate how much larger is Jupiter’s diameter than the Earth's.

6. The *AU*, Astronomical Unit, is

7. The *Milky Way* is

9. The size of a virus is about 1 billionth of meter. Write this in scientific notation.

10. The path the sun follows on the celestial sphere is called the

11. What is the main reason we have very few eclipses?

12. Which is bigger:

13. Which planet is closest in size to the Earth's?

14. Which planet has no atmosphere at all?

15. The key to being a scientific claim is that it must be

- A) testable
- B) true
- C) false
- D) made by a scientist
- E) complicated and usually incomprehensible to the average person

16. As discussed in class during the activity on scaling, the electromagnetic spectrum contains the wavelengths of all the different radiations. Which of the following are correctly ordered in terms of size; smallest to biggest?

18. If you are standing on the North Pole of the earth, which of the following is directly overhead?

19. According to the scaling activity we did in class AND the PowerPoint review of it, the largest thing we can even think of is the observable Universe. It is hugely bigly gargantuan! The single object that is

the furthest away from us here on earth is a GRB (Gamma Ray Burst) probably caused by the collision of two neutron stars to form a supermassive black hole. How far away is it in meters?

20. As discussed in class a few times, Columbus did not prove the world was round; even the ancient Greeks 4000 yrs ago knew it was round. How?

21. Galileo looked through his crude telescope and saw the phases of Venus just like our own moon looks. This led him to believe

23. Which statement below correctly describes the ideas of Ptolemy and Copernicus?

24. Your Astronomy teacher’s name is

27. The earth is about how old?

28. The scientist who was first to discover that other planets (Jupiter) had moons was

31. How many multiple guess questions are there on this test?

SA – Pick any 4 of the following 5 questions for grading. Write your answers on this paper.

1. [10pts] seasons

2. [10 pts] “constellation”

3. [10 pts] ‘solstice’ and ‘equinox’.

4. [10 pts] Scaling.

5. [10 pts] ***Open Ended:***