Name:			

Instructions: Record all answers on your response sheet.

TRUE-FALSE: Answer "T" for True or "F" for False. If the supervisor has difficulty determining whether your response is a "T" or an "F," it will be marked incorrect.

- 1. Earth and the Sun were formed from materials within the same cloud of interstellar matter.
- 2. Some asteroids are known to cross Earth's orbit.
- 3. A lunar eclipse may occur only during the Moon's full phase.
- 4. Ceres, the largest asteroid, is nearly the size of Earth's Moon.
- 5. Earth's varying distance from the Sun is the primary cause of its seasons.
- 6. Earth's fully eclipsed Moon generally appears reddish-orange in color.
- 7. The Moon rotates about its axis once during each orbit around Earth.
- 8. The distribution of elements in the Sun is quite similar to those in the large gaseous planets.
- 9. The same hemisphere of Mercury always faces the Sun.
- 10. The rings in orbit about the giant planets are constantly evolving.
- 11. Most meteorites originate from comets.
- 12. When aimed at a comet, the Chandra X-ray Observatory may detect x-rays.
- 13. Mercury cannot be seen at midnight because it is too close to the Sun at that time.
- 14. We now know precisely how Earth's Moon was formed.
- 15. The orbital velocity of a planet varies with its distance from the Sun.
- 16. The phases of Venus supported the theory of a sun-centered universe.
- 17. Long-period comets originate from within the Kuiper belt.
- 18. The oxygen within Earth's atmosphere is a product of outgasing.
- 19. Olympus Mons, the large martian volcano, is a composite volcano.
- 20. Trojan asteroids are a potential threat to life on Earth.

Short answer questions: Enter a one or two word response for each of the following questions. Spellings must be close enough to leave no doubt as to what word you are attempting to write.

- 21. What planet is at times totally engulfed by global dust storms?
- 22. What terrestrial planet has no significant atmosphere?
- 23. What planet has the largest volcanoes in the solar system?
- 24. What planet's ring system is only tens of meters from top to bottom but stretches outward several hundred thousand kilometers?
- 25. What planet has the hottest planet-wide temperatures?
- 26. What terrestrial planet may be considered geologically dead?
- 27. What is the principal gas component of the martian atmosphere?
- 28. What planet has a canyon 4800 km (3000 mi) long and 6.5 km (4 mi) wide?

Questions 29-55 are on the back. Turn this sheet over to continue.

- 29. What outer planet has a thin atmosphere and a solitary moon?
- 30. What comet, the first recognized as a returning visitor, is the source of particles responsible for the Orionid meteor shower?
- 31. What locations on Earth's surface experience six continuous months of daylight followed by six continuous months of darkness?
- 32. What planet has twice the mass of all other planets within our solar system combined?
- 33. What bodies are associated with dust-and-plasma tails and comas?
- 34. What objects lose significant mass each time they approach and swing around the Sun?
- 35. What causes the tail of a comet to always point away from the Sun?
- 36. What geologic activity is responsible for lo's very young surface?
- 37. During what lunar phase is the entire nearside of Earth's Moon fully illuminated?
- 38. What stream of solar particles swept much of the martian atmosphere into space?
- 39. Into what planet did a train of 21 fragments from the Shoemaker-Levy 9 comet plummet?
- 40. During what lunar phase does the entire illuminated half of the Moon face away from Earth?
- 41. What planet did Homer call "the most beautiful star set in the sky?"
- 42. What dark blue, giant planet has white cirrus clouds and visible storm systems within its atmosphere?
- 43. What are the most numerous surface features on Mercury?
- 44. Name the first comet known to return at regularly-spaced intervals.
- 45. What inner planet reflects 76 percent of the light it receives from the Sun?
- 46. Which one of the giant planets has no really massive satellites?
- 47. What were the only extra-terrestrial rocks available for study prior to the Space Age?
- 48. On what body would one find the Sea of Tranquility and the Sea of Nectar?
- 49. What planet has the fastest rotational rate?
- 50. Which of Saturn's moons is enveloped by a significant atmosphere?
- 51. What did early observers believe the Moon's flat, darkened areas to be?
- 52. What planet within our solar system ranks fifth in size?
- 53. What planet, during an 18th century solar transit, provided proof of an atmosphere surrounding a planet other than Earth?
- 54. What planet's clouds consist of sulfuric acid droplets?
- 55. What is the largest moon in the solar system?

For more questions in a game format, play "The Game of SPACE." Visit http://www.otherworlds-edu.com