1. _______ is a common volcanic rock that makes up most of the ocean crust.
   a. granite
   b. mudstone
   c. sandstone
   d. basalt

2. True or False? A “divide” separates different river drainage basins.
   a. True
   b. False

3. A river terrace is ____________.
   a. The place where the river flows over it’s levee
   b. The step formed when a river cuts into it’s own floodplain
   c. A commercial establishment where they sell drinks
   d. The place where the river spreads out into several channels near the ocean

4. The zone in the ocean where the temperature quickly changes with depth is called:
   a. halocline
   b. anticline
   c. thermocline
   d. syncline

5. Which of the following does NOT describe a mineral?
   a. the building blocks of rocks
   b. natural gems
   c. a fundamental form of matter that cannot be broken into simpler substances by ordinary chemical processes
   d. a naturally occurring, inorganic solid with a characteristic chemical composition and a crystalline structure

6. The hydrologic cycle
   a. describes the circulation of water in streams, lakes and wetlands.
   b. describes a primary mechanism of the movement of energy as well as the movement of water from one part of the globe to another.
   c. describes a primary mechanism of the movement of energy from one part of the globe to another.
   d. describes the movement of water from the atmosphere to the hydrosphere.
7. We find recent volcanic eruptions and earthquakes at which of the following?
   1. Mid oceanic ridges
   2. Subduction zones
   3. Anywhere within an ocean basin
   4. Passive continental margins
   a. 1, 2, 3, 4
   b. 1, 2
   c. 1, 4
   d. 3

8. The rock cycle theory states that
   a. rocks may change slowly from any one type to another.
   b. rocks always remain in the same state in which they were originally formed.
   c. rocks may only change from a metamorphic to a sedimentary form.
   d. once a rock reaches a metamorphic form, it will always remain unaltered.

9. The water that fills the Earth's oceans originally may have come from
   a. a comet.
   b. Mars.
   c. volcanoes.
   d. a gigantic flood.

10. Which is presently (today) the most volcanically active planetary body from the list below?
    a. Venus
    b. Earth
    c. Moon
    d. Mars

11. The __________________ is the distance between successive peaks of a wave.
    a. Wave height
    b. Wavelength
    c. Crest
    d. Trough
12. What is a half-life?
   a. \( \frac{1}{2} \) of a life
   b. the time it takes for a radioactive atoms to age by \( \frac{1}{2} \)
   c. the time it takes for \( \frac{1}{2} \) of atoms to become radioactive
   d. the time it takes for \( \frac{1}{2} \) of radioactive parent atoms in a sample to decay to daughter atoms

13. The tens of thousands of small orbiting bodies between Mars and Jupiter are called
   a. asteroids.
   b. meteorites.
   c. comets.
   d. meteors.

14. What factor(s) affect(s) the gravity on the surface of a planet?
   a. Temperature
   b. Radius
   c. Magnetic field
   d. Population

15. Which of the following is NOT a cause of a mass extinction over geologic history?
   a. extensive transfer of CO2 between the atmosphere and the oceans, which caused major temperature fluctuations
   b. a massive earthquake caused by global expansion of the Earth, which caused plate tectonics to temporarily stop altogether.
   c. an explosion, massive dust cloud, and possible tsunami, generated by a major meteoric impact
   d. a major volcanic eruption of gas and dust, which contaminated the atmosphere and caused major temperature fluctuations.

16. Which is true of comet tails?
   a. Tails grow from heat from the Sun and are carried by the solar wind
   b. Tail length depends on the distance from the Earth
   c. There are two: one made up of gas and one made up of dust
   d. a & c
17. Extrusive igneous rocks form when
a. magma solidifies within the crust.
c. magma cools slowly and forms small crystals
d. magma erupts and solidifies on the Earth's surface.
e. magma transforms to lava because of rising temperature and pressure.

18. Why can’t gas giant planets support life?
a. Not the right chemicals
b. Too hot of an atmosphere
c. No sunlight at all
d. No stable surface

19. Which scientist formulated the Heliocentric model?
a. Copernicus
b. Aristotle
c. Galileo
d. Kepler

20. True or False? Both the Earth and the Moon are currently being deformed by plate tectonics.
a. True
b. False

21. Relative planetary sizes: Which of the following lists of terrestrial planets is placed in the correct order according to size (largest → smallest)?
a. Earth, Mars, Venus, Mercury
b. Mars, Earth, Venus, Mercury
c. Venus, Earth, Mars, Mercury
d. Earth, Venus, Mars, Mercury

22. Where do the dissolved ions in the ocean go?
a. Shells and fish
b. Shells and sediments
c. Fish and sediments
d. The ions stay in the ocean water