

Directions: Choose the best response from the answer choices below.

1. From what type of lava did Table Mountain form?
 - a. sticky, pasty lava called rhyolite
 - b. sticky, pasty lava called andesite
 - c. hot, runny lava called latite
 - d. hot, runny lava called basalt
2. How old is Table Mountain?
 - a. 10,000 years old
 - b. 100,000 years old
 - c. 10 million years old
 - d. 10 billion years old
3. Inverted topography refers to
 - a. landscape features that have not reversed their elevation relative to other features
 - b. landscape features that have reversed their elevation relative to other features
 - c. landscape features that have the same elevation relative to other features
4. Serpentinite is
 - a. the most common rock in the Mother Lode
 - b. very uncommon in California
 - c. the state rock of California
5. Gold is found in
 - a. placer deposits
 - b. lode deposits
 - c. both A and B
6. Serpentine soils can be toxic to certain plant types due to
 - a. high iron content
 - b. high manganese content
 - c. high silica content
 - d. high magnesium content
7. A terrane is
 - a. a fragment of crustal material formed on, or broken off from, one tectonic plate and accreted — "sutured" — to crust lying on another plate
 - b. a fragment of crustal material formed on one tectonic plate and disconnected from crust lying on another plate
 - c. any crustal material lying on another plate
 - d. all of the above
8. The oldest rocks in the Mother Lode are
 - a. 4.6 billion years old
 - b. 4.6 million years old
 - c. 10 million years old
 - d. 400 million years old
 - e. 6,000 years old
9. The most important economic minerals in Tuolumne County are
 - a. gold, aggregate, and uranium

- b. uranium, aggregate, and tungsten
- c. aggregate, carbonate rock, and gold
- d. carbonate rock, gold, and uranium

10. Faults in the Mother Lode are considered

- a. active
- b. inactive
- c. deadly

11. The main types of rocks in Tuolumne County are

- a. igneous and metamorphic
- b. metamorphic and sedimentary
- c. sedimentary and igneous
- d. igneous, metamorphic, and sedimentary

12. Marble in the Mother Lode is made of the minerals

- a. quartz and feldspar
- b. calcite and quartz
- c. dolomite and quartz
- d. calcite and dolomite

13. Geologic hazards in the Mother Lode include

- a. landslides, rockfalls, and debris flows
- b. earthquakes
- c. volcanic ash
- d. flooding
- e. all of the above

14. The Mother Lode was formed, in part, by subduction.

- a. true
- b. false

15. Volcanic processes and magma generation played a role in forming the Mother Lode gold.

- a. true
- b. false

16. A debris flow is made solely of

- a. solid rock
- b. rocks, trees, and clay
- c. rocks, trees, clay, and ice
- d. none of the above
- e. all of the above

17. Mass wasting is the process by which soil, regolith, and rock move downslope under the force of gravity.

- a. true
- b. false

18. Granite comes from

- a. magma
- b. lava
- c. quartz
- d. silica and carbonates
- e. all of the above

19. Gold in the Mother Lode came from

- a. lava flows in the area
- b. sedimentary rocks
- c. hot quartz-rich fluids
- d. granite
- e. marble

20. Water in the Mother Lode ends up in

- a. San Francisco
- b. the East Bay
- c. the Delta and Pacific Ocean
- d. the Central Valley
- e. all of the above
- f. none of the above

What did you like about the class?

What would you change about this class?