

Student name \_\_\_\_\_

# Sample Test

## Caves

NOTE:

Count pages to make sure that you have all of them.

You may keep the question sheet.

Fill in all information requested on the answer sheet. You lose 2 points for each item not legibly filled in.

Test is over at 12:55 p.m.

There are 33 questions. Each is worth 3.03 points for a total of 100 points.

You lose 1 point for each mistake filling in the answer sheet opposite side (name, etc.).

You may leave when you have completed the test, but please do so quietly in consideration for those who are still working. Bring your test to the TA or me in the front of the room.

Good luck! If you need to ask a question, please raise your hand.

1. **The sedimentary rock that most caves are formed in is:**
  - A. Granite
  - B. Limestone
  - C. Schist
  - D. Graywacke
  - E. All of the above
  
2. **What is the general name given to the terrane where caves are found:**
  - A. Karst
  - B. Capitan
  - C. Guerrilla
  - D. Rock
  - E. Resplendent
  
3. **An Atoll is a reef shaped like:**
  - A. A linear ridge
  - B. A ring
  - C. A triangle
  - D. A skirt
  - E. A tall pillar

4. **Mammoth Cave Kentucky is about how long:**
  - A. 5 km
  - B. 50 km
  - C. 500 km
  - D. 5000 km
  - E. 50,000 km
5. **A cave is:**
  - A. Any hole in the ground
  - B. A natural hole in the ground big enough for a human to enter.
  - C. Any mine, tunnel, or cavern
  - D. Any man-made opening
  - E. None of the above
6. **Limestone is mainly composed of the mineral pyrite.**
  - A. True
  - B. False
7. **Caves are mapped by:**
  - A. Compass and tape measure
  - B. Radars
  - C. Aerpolane
  - D. Seismic explosions.
8. **Corals are \_\_\_\_\_**
  - A. Plants
  - B. Animals
9. **At least how far in to Mammoth Cave did Native Americans travel?**
  - A. 1 mile
  - B. 2 miles
  - C. 4 miles
  - D. 8 miles
  - E. 12 miles
10. **Limestones are always white in color**
  - A. True
  - B. False
11. **Most caves are formed by dissolution of the rock by acidic water**
  - A. True
  - B. False
12. **The gas that is important for forming most caves is:**
  - A. NO<sub>2</sub>
  - B. CO<sub>2</sub>
  - C. H<sub>2</sub>SO<sub>4</sub>
  - D. CH<sub>4</sub>
  - E. O<sub>2</sub>
13. **When a limestone is metamorphosed, the resulting rock is called**
  - A. Basalt
  - B. Granite
  - C. Marble
  - D. Spodumene
  - E. None of the above.
14. **Stalactites grow up from the floor**
  - A. True
  - B. False
15. **Speleothems are usually made of calcite.**
  - A. True
  - B. False

16. **What has been found in the sulfur deposits of Lechuguilla Cave**  
A. Bacteria  
B. Viruses  
C. Seeds  
D. All of the above  
E. None of the above
17. **How long are the longest gypsum chandeliers in Lechuguilla Cave?**  
A. 2 inches  
B. 20 inches  
C. 2 feet  
D. 20 feet  
E. 200 feet
18. **What did the video say is found in the caves of the Austrian Alps?**  
A. Ice  
B. Bears  
C. Mammoths  
D. Dirt  
E. Radioactivity
19. **How long did the rescue of Emily Davis Mobley take in Lechuguilla Cave?**  
A. 4 hours  
B. 14 ours  
C. 24 hours  
D. 4 days  
E. 4 weeks
20. **The mineral calcite has the chemical formula:**  
A. NaCa<sub>3</sub>  
B. CaNO<sub>3</sub>  
C. CaO<sub>3</sub>  
D. CaCO<sub>3</sub>  
E. None of the above.
21. **The earth is \_\_\_\_\_ years old.**  
A. 4,600  
B. 4,600,000  
C. 4,600,000,000  
D. 4,600,000,000,000  
E. 4,600,000,000,000,000
22. **Corals can reproduce by which of the following methods?**  
A. Sexual  
B. Budding  
C. Homogenization  
D. A & B  
E. B & C
23. **Which of the following is NOT a land use problem we discussed for areas with caves?**  
A. Mosquitoes  
B. Collapse  
C. Sinkhole flooding  
D. Pollution  
E. Water supply
24. **In a cave I notice that there is a vertical joint in middle of the ceiling. The passage is tall and narrow, and tapers towards this joint. It is likely that this joint formed \_\_\_\_\_ the cave formed.**  
A. Before  
B. After

25. **Rainwater is the original source of the water that forms most caves**  
A. True  
B. False
26. **The three main types of rocks are**  
A. Igneous, sedimentary, mineralogic  
B. Igneous, hard, soft  
C. Hard, soft, broken  
D. Dark, medium. light  
E. Sedimentary, metamorphic, igneous
27. **Caves can form in the following rocks, as we discussed in class**  
A. Salt  
B. Limestone  
C. Gypsum  
D. A & B  
E. A, B, & C
28. **The deepest known cave in the world?**  
A. Reseau Jean-Bernard; 1535 meters  
B. Mammoth Cave, 2023 meters  
C. Lechuguilla Cave, 632 feet  
D. Fitzsimmons Well, 567 feet  
E. None of the above
29. **What is guano**  
A. A type of rock  
B. Bat droppings  
C. A disease  
D. A state in central Mexico  
E. None of the above
30. **How many visitors does Mammoth Cave get each year.**  
A. 100,000  
B. 300,000  
C. 500,000  
D. 1 million  
E. 3 million
31. **Sulfuric acid is responsible for forming some caves**  
A. True  
B. False
32. **Corals with low, tabular forms are likely to be found in rough, nearshore waters.**  
A. True  
B. False
33. **Calcite and aragonite both have the same chemical formula. What makes them different is....**  
A. Color  
B. Reaction to acid  
C. Crystal structure  
D. Taste  
E. Smell