

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

**Test 1**  
**3370:200 Section 001**  
**Fall - 1997**  
**Environmental Geology**


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 9:40 a.m.  
Do not speak to anyone except the instructor or TA during the test. A grade of zero will be assigned for violation of this rule.  
There are 40 questions. Each is worth 2.5 points for a total of 100 points.  
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 me in the front of the room.  
Choose the best answers.

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

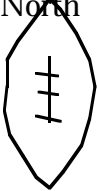
Test covers lectures and readings through Volcanoes weathering.

1. **Given a population of 100,000 people, and a growth rate of 7% (annual rate), approximately how long will it be until the population reaches 200,000?**
  - A. 1 year
  - B. 2 years
  - C. 5 years
  - D. 7 years
  - E. 10 years
2. **The first Earth Day was celebrated on ....**
  - A. April 22, 1970
  - B. February 31, 1975
  - C. March 23, 1975
  - D. April 21, 1985
  - E. March 30, 1990
3. **The elevation of the City of Akron is about \_\_\_\_\_ feet above mean sea level.**
  - A. 10
  - B. 107
  - C. 1057
  - D. 7,500
  - E. 10,570

4. **The estimated population of planet Earth in 1990 was:**  
 A. 5.2 thousand  
 B. 5.2 million  
 C. 5.2 billion  
 D. 5.2 trillion  
 E. 5.2 gazillion
5. **The Earth has a radius of \_\_\_\_\_ kilometers, and is shaped as a sphere, except slightly squashed like a**  
 A. 6,371 / Pumpkin  
 B. 6,371 / Football  
 C. 600,371 / Pumpkin  
 D. 600,371 / Football  
 E. 1,600,371 / Pumpkin
- North



North


6. **The form of the surface of the Earth (mountains, valleys, etc.) is the result of two opposing forces, uplift and erosion.**  
 A. True  
 B. False
7. **70% of the Earth's surface is oceans; the rest is land (do not consider ice cover)**  
 A. True  
 B. False
8. **The highest point on the surface of the earth is**  
 A. Mt. Everest, 29,000 feet a.m.s.l.  
 B. Mt. Everest, 2,900 feet a.m.s.l.  
 C. Mt. Kilmanjaro, 29,000 feet a.m.s.l.  
 D. Mt. Kilmanjaro, 2,900 feet a.m.s.l.  
 E. Mt. McKinley, 2,900 feet a.m.s.l.
9. **What percent of the earth is currently covered by ice?**  
 A. 10%  
 B. 30%  
 C. 50%  
 D. 60%  
 E. 70%
10. **The galaxy that we live in is called**  
 A. The Terran System  
 B. The Milky Way  
 C. The Andromena Galaxy  
 D. The Rhomulan Zone  
 E. The meteor belt
11. **The earth has a core which is mainly composed of metals. The outer core is liquid. The inner core is solid.**  
 A. All of the preceding statements are True  
 B. Some of the preceding statements are True  
 C. None of the preceding statements are True
12. **Quartz is a**  
 A. Rock  
 B. Mineral  
 C. Tsunami  
 D. Soil  
 E. Shield volcano

13. **Approximate thickness of the crust of the earth:**  
A. 0 km  
B. 20 km  
C. 100 km  
D. 1000 km  
E. 2000 km
14. **Sandstone is made of tiny eroded grains of sand (quartz) which have been packed together. Therefore, sandstone is a**  
A. Sedimentary rock  
B. Igneous rock  
C. Metamorphic rock  
D. Intrinsic rock  
E. Mineral
15. **Cubic zirconium is a man-made imitation diamond. Is it a mineral?**  
A. Yes  
B. No
16. **Is coal a rock?**  
A. Yes  
B. No
17. **While walking along a stream in Sand Run Park, you notice that there are layers of sediment in the stream bed. The top layer is sand, the bottom layer is clay. According to the law of superposition, which is younger (i.e. deposited last)?**  
A. Clay  
B. Sand
18. **Remember that C-14 is a radioactive isotope which undergoes beta-decay to N-14. Given 200 atoms of C-14 as a starting point, how many C-14 atoms will remain after 2 half-lives have passed?**  
A. 100  
B. 75  
C. 50  
D. 25  
E. 0
19. **Geologists presently believe that the Earth is about \_\_\_\_\_ years old.**  
A. 506 million  
B. 1.6 billion  
C. 10.6 million  
D. 4.6 billion  
E. 16.0 billion
20. **If all of geologic time was compressed in to 1 year (365 days, starting at 12:01 a.m., January 1), when would humans as we know them have appeared?**  
A. Nov. 1  
B. Nov. 20  
C. Dec. 20  
D. Dec. 25  
E. Dec. 31
21. **Evidence for continental drift includes the following**  
A. The fit of the continents  
B. Astronomical data  
C. Glacial deposits and directions  
D. All of the above  
E. A and C above.

22. **The island of Martiniqué had a disaster in 1902; it was....**  
A. An earthquake  
B. A tidal wave  
C. A nuée ardente  
D. A landslide  
E. A & B
23. **Most active volcanoes and earthquakes occur near plate boundaries**  
A. True  
B. False
24. **In an area where the crust is under compression, which type of faults usually form?**  
A. Normal  
B. Reverse  
C. Strike slip
25. **The epicenter of an earthquake is the point on the surface of the earth above the focus.**  
A. True  
B. False
26. **Primary seismic waves can travel through fluids, but S waves can not.**  
A. True  
B. False
27. **Which of the following is a major source of damage from earthquakes:**  
A. Fire  
B. Landslide  
C. Foundation failure  
D. Tsunami  
E. All of the above are major sources of damage.
28. **The most destructive waves associated with earthquakes are called**  
A. Short waves  
B. Long waves  
C. Primary waves  
D. Secondary waves  
E. Infrared waves
29. **The New Madrid Earthquake (1811) was a**  
A. Divergent boundary quake  
B. Intraplate earthquake  
C. Convergent boundary earthquake  
D. Transform boundary earthquake  
E. Minor trembling
30. **The midocean ridge is a place where new crust is being formed**  
A. True  
B. False
31. **Volcanoes can occur at the following place(s):**  
A. Divergent Boundaries  
B. Convergent boundaries  
C. Within plates  
D. A, B, & C  
E. A & B
32. **Volcanic eruptions tend to be more explosive with increases in**  
A. Viscosity of lava  
B. Length of time since last eruption  
C. Gas pressures  
D. A & B  
E. A, B, & C

33. **Hawaiian type volcanic eruptions tend to be**  
A. Explosive  
B. Gentle
34. **Plinian type eruptions tend to be**  
A. Explosive  
B. Gentle
35. **Basalt is an igneous rock that forms at many volcanoes.**  
A. True  
B. False
36. **The type of volcano seen in Hawaii is called a**  
A. Shield  
B. Composite  
C. Caldera  
D. Cinder cone  
E. Lava Dome
37. **Some solid clays can be turned in to liquid by just shaking them, without adding additional water.**  
A. True  
B. False
38. **An earthquake of Richter magnitude 3 has a ground motion of .....**  
A. 1,000 microns  
B. 100,000 microns  
C. 1,000,000 microns  
D. 10 meters  
E. 1000 meters
39. **The San Andreas fault is about \_\_\_\_\_ miles long.**  
A. 8  
B. 80  
C. 800  
D. 8,000  
E. 80,000
40. **Earthquakes do occur in Ohio.**  
A. True  
B. False