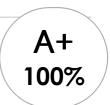
Quizlet

28 Multiple choice questions

- 1. an electron given off by a radioactive nucleus
 - a. qualitative
 - b. CORRECT: beta particle
 - c. half-life
 - d. alpha particle



- 2. an ancient continent believed to have existed during the Palaeozoic and Mesozoic times that eventually split up to form Australia, India, Antarctica, Africa and South America
 - a. CORRECT: gondwana
 - b. pangaea
 - c. fohn wind
 - d. laurasia
- 3. a mountain range or deep valley running under the world's oceans
 - a. radiometric dating
 - b. radioisotope
 - c. CORRECT: mid-oceanic ridge
 - d. relative age
- 4. an atomic particle found in the nucleus of atoms that has almost the same mass a proton but no electrical charge
 - a. subduction
 - b. proton
 - c. CORRECT: neutron
 - d. electron
- 5. the negatively charged particle that orbits the atomic nucleus. The chemical properties of elements depend on the number and arrangement of these electrons
 - a. neutron
 - b. subduction
 - c. proton
 - d. CORRECT: electron

- 6. if rock layers are crossed by another layer at an angle, the cross-cutting layer will be the youngest
 - a. law of superposition
 - b. CORRECT: law of cross-cutting relationships
 - c. radiometric dating
 - d. gamma radiation
- 7. the determination of ages of rocks, minerals and once living material by measuring the levels of certain radioactive elements
 - a. gamma radiation
 - b. mid-oceanic ridge
 - c. radioisotope
 - d. CORRECT: radiometric dating
- 8. the time it takes for half a sample of radioactive atoms to decay
 - a. qualitative
 - b. fohn wind
 - c. laurasia
 - d. **CORRECT:** half-life
- 9. during radioactive decay, the isotope that emits a particle to form a different daughter isotope
 - a. daughter isotope
 - b. proton
 - c. radioisotope
 - d. CORRECT: parent isotope
- 10. the crescent-shaped supercontinent made up of all the present continents fitted together to form one large landmass; plate tectonics is believed to have split pangaea into laurasia and gondwana and later into the present-day continents
 - a. laurasia
 - b. proton
 - c. gondwana
 - d. CORRECT: pangaea

11. that part of the electromagnetic spectrum with the shortest wavelength a. CORRECT: gamma radiation b. alpha particle c. subduction d. laurasia the ancient landmass that comprised the present day continents of North America, Europe and Asia 12. a. trench b. **CORRECT:** laurasia c. pangaea d. half-life a positively charged particle found in the nuclei of all atoms; it has a single positive charge that just balances the 13. negative charge of an electron and has a mass almost the same as a neutron a. neutron b. CORRECT: proton c. electron d. trench a transform boundary between crustal plates where no new crusts forms and no old crust is destroyed; also known as a passive boundary a. CORRECT: conservative boundary b. continental drift c. asthenosphere d. relative age 15. a helium nucleus given off by a radioactive nucleus a. beta particle b. half-life c. qualitative

d. CORRECT: alpha particle

- 16. an isotope of an element that emits radioactive particles
 - a. parent isotope
 - b. CORRECT: radioisotope
 - c. proton
 - d. daughter isotope
- 17. the use of the terms era, period or epoch of the geological times scale; for example, to say a fossil is Devonian says it is older than fossils found in the Carboniferous but younger than a fossil from the Silurian
 - a. laurasia
 - b. pangaea
 - c. qualitative
 - d. CORRECT: relative age
- 18. a very rapid increase in numbers
 - a. electron
 - b. continental drift
 - c. neutron
 - d. CORRECT: exponential growth
- 19. the element formed during radioactive decay of the parent isotope
 - a. asthenosphere
 - b. CORRECT: daughter isotope
 - c. parent isotope
 - d. radioisotope
- 20. the theory that the surface of the earth is divided into a number of constantly moving crustal plates; this crustal plate movement can be sued to explain the present positions of the continents and hence the present distribution of living things
 - a. proton
 - b. **CORRECT:** plate tectonics
 - c. electron
 - d. parent isotope

21. that part of the upper mantle beneath the rigid lithosphere that is plastic enough for rock flowage to occur a. parent isotope b. CORRECT: asthenosphere c. trench d. daughter isotope the formation and break up of continents caused by the movement of landmasses on the surface of the Earth 22. a. half-life b. fohn wind c. CORRECT: continental drift d. exponential growth descriptive rather than numerical 23. a. half-life b. laurasia c. CORRECT: qualitative d. subduction a type of silica-rich explosive eruption named after the Andes Mountains 24. a. CORRECT: andesitic volcanism b. plate tectonics c. neutron d. relative age a long, narrow and usually steep-sided depression, such as in the ocean floor where one plate of the earth's crust is 25. sliding over another a. electron b. neutron c. CORRECT: trench d. proton

- 26. the process by which one crustal plate descends beneath another, such as along a deep ocean trench
 - a. electron
 - b. neutron
 - c. proton
 - d. CORRECT: subduction
- 27. in a sequence of sedimentary rocks or lava flows, each layer is younger that the one beneath it and older than the one above it
 - a. **CORRECT:** law of superposition
 - b. subduction
 - c. proton
 - d. gamma radiation
- 28. a warm, dry wind on the opposite side of a mountain range form with the wind comes; as the air moves over the mountain range and down the other side, the air sinks and warms, causing clouds to vanish; this results in dry air that not only decreases rainfall but also increases evaporation on the other side of the mountains
 - a. CORRECT: fohn wind
 - b. gondwana
 - c. laurasia
 - d. trench