MODERN EARTH SCIENCE

Chapter 11

Resources and Energy

ach statement below. If t statement is false, write <i>l</i>			pace provided.	
 1. Fossil fuels are availa	able in limitless sup	oplies.		
 2. Energy obtained dire	ctly from heat in t	he earth's crust is	called geothermal energy.	
 3. Placer deposits are fo	ormed by contact i	netamorphism.		
 4. The process of splitti called nuclear fission	•	a large atom into t	wo or more smaller nuclei is	S
 5. Anthracite is a light-	colored mineral co	mmonly used as a	gemstone.	
 _ 6. Halite, sulfur, and diamond are nonmetallic minerals used as building materials.				
 7. Microorganisms that lived in ancient oceans and lakes are an important source of hydrocarbons.				
 8. All of the world's en	ergy needs could e	asily be met by mo	odern wind-driven generators	;.
 9. Sulfur dioxide is a po	ollutant that is con	nmonly produced v	when fossil fuels are burned.	
10. Petroleum is used to	produce plastics, o	detergents, and son	ne medicines and insecticides	١.
e the one best response.			space provided.	
 11. Magnetite and hemat	ite are important s	sources of:		
a. mercury.	b. lead.	c. iron.	d. copper.	
 12. Which of the followi	ng is produced by	the process of carl	oonization?	
a. gold	b. coal	c. quartz	d. cinnabar	
 13. Nonmetallic minerals	prized for their b	rilliance and color	are called:	
a. metals.	b. placers.	c. ores.	d. gemstones.	

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Choose the one best response. Write the letter of that choice in the space provided.

- _____ 14. Which of the following minerals is obtained from bauxite?
 - a. gold
- b. aluminum
- c. platinum
- d. sulfur
- 15. Bituminous coal is produced when extreme pressure is applied to:
 - a. lignite.
- b. anthracite.
- c. natural gas.
- d. crude oil.
- 16. In general, the most efficient conductors of heat and electricity are:
 - a. metals.

b. petrochemicals.

c. gemstones.

- d. ores.
- ____ 17. Using a rooftop collector to capture the sun's energy is an example of:
 - a. nuclear fusion.

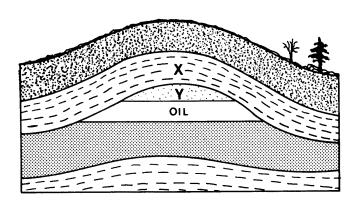
- b. nuclear fission.
- c. active solar heating.
- d. passive solar heating.
- ____ 18. Recently, scientists have focused sunlight onto liquid saltpeter in order to make use of:
 - a. nuclear energy.

b. geothermal energy.

c. solar energy.

d. hydroelectric energy.

Use the diagram below to answer questions 19 and 20.



- _____ 19. Which of the following is most likely to be found in the layer labeled Y?
 - a. gasoline
- b. water
- c. natural gas
- d. peat
- 20. The layer labeled X is most likely composed of:
 - a. lignite.
- **b.** sandstone.
- c. bauxite.
- d. shale.

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Complete each statement by writing the correct term or phrase in the space provided. 21. A narrow, fingerlike band of a mineral is called a ______. 22. Fossil fuels are made up of compounds of carbon and hydrogen called ______. 23. Chromium, nickel, and lead ores commonly form underground within cooling 24. The rock immediately above a deposit of petroleum is called a ______ 25. Fossil fuels are found in the earth in the form of crude oil, or unrefined **26.** The sun's energy that reaches the earth is produced by the process of nuclear 27. In the future, nuclear fusion reactors may be fueled by an almost limitless supply of hydrogen atoms from the ______. 28. In a geothermal generating plant, energy is produced when steam turns a 29. Chemicals derived from petroleum are called ______ 30. Fuel rods in a nuclear reactor are made from isotopes of the element ______. Read each question or statement and answer it in the space provided. 31. Describe how substitution and recycling can be used to conserve mineral resources.