MATCHING

Write the letter of the term or phrase on the right that best matches the description on the left in the space provided.

_____ 1. process of returning land to its original or better condition after mining
   a. alloy
   b. surface mining
   c. longwall
   d. subsidence
   e. ore minerals
   f. aggregates
   g. reclamation
   h. quarry
   i. smelting
   j. placer deposits

_____ 2. the wall of a coal seam
_____ 3. minerals that contain valuable substances
_____ 4. two or more metals that are combined
_____ 5. open pit used to mine materials near the surface
_____ 6. process by which crushed ore is melted at high temperatures to separate impurities from molten metal
_____ 7. mining method used when ore deposits are located close to Earth’s surface
_____ 8. sand, gravel, and crushed rock
_____ 9. minerals concentrated by wind and water movement into surface deposits
_____ 10. the sinking of regions of the ground with little or no horizontal movement

MULTIPLE CHOICE

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

_____ 11. The first step in surface coal mining is
   a. to remove and set aside the soil that covers the area to be mined.
   b. to use heavy equipment to take core samples.
   c. to test to see if quarrying would be more effective.
   d. to make cuts in the coal for easier removal.

_____ 12. A serious hazard of coal mining is
   a. a high-pressure water blast.
   b. an aggregation.
   c. excess overburden.
   d. an underground mine fire.
______13. Dredging streambeds may be an effective technique for mining
   a. silica.  c. gold.
   b. coal.   d. sulfur.

______14. Before mining a site, a mining company must do all of the following except
   a. obtain permits from state agencies.
   b. comply with federal regulations.
   c. obtain bonding.
   d. cut into a section of the longwall.

______15. What is the arrangement of atoms in a mineral?
   a. porous, woven patterns
   b. regular, repeating geometric patterns
   c. irregular patterns
   d. clumped groups of like elements

______16. Nonmetallic minerals prized mainly for their beauty, rarity, or durability are called
   a. aggregates.  c. native elements.
   b. overburden.  d. gemstones.

______17. Which of the following is not affected when soil is removed from a surface mine?
   a. plant life
   b. soil nutrients
   c. animal habitat
   d. deep coal seams

______18. Mining companies can identify areas of valuable mineral resources by
   a. mineral exploration.  c. mineral excavation.
   b. smelting.  d. dredging.

______19. Solar evaporation is practical in order to obtain salt from sea water in climates where rainfall is exceeded by
   a. evaporation.
   b. snowfall.
   c. high-speed winds.
   d. humidity.

______20. Which of the following is not a way that ore minerals may form?
   a. cooling of magma
   b. circulation of hydrothermal solutions through rocks
   c. flooding of empty streambeds and rivers
   d. evaporation of water that contains salts

______21. Which of the following is one reason why undersea mining has been largely unsuccessful to date?
   a. Deposits at great water depths are difficult to work.
   b. Ocean water is too salty.
   c. There is too much aggregate on the ocean floor.
   d. Magma exists under the ocean floor.