| Name: | | Class: | | Date: | ID: A |
|----------------------|----------------------|--|--------|--|---------------------------|
| Formati | ve Ex | xam Fossils to Geological Time | | | |
| Multiple Identify th | | ee ce that best completes the statement or a | nswe | ers the question. | |
| | Wri | ite the letter that best answers the question | n or | completes the statement on | the line provided. |
| 1 | l. Roo | cks record geological events and | | | |
| 2 | | life forms of the present. life forms of the past. astronomical milestones of the past. Earth's circumference and diameter in the geologic processes that shape Earth's fe | _ | | |
| | a. b. c. d. | are much different from those of thousand did not operate in the distant past. are basically the same today as they were became important only several hundred what purpose do geologists use relative d | nds of | of years ago. the geologic past. s ago. | |
| | a. b. c. | to determine which rock layer in a canyo to find the age of a rock layer to determine how a rock's composition to identify past life forms that once live | on w | rall formed first | |
| | 4. In § | general, the law of superposition states that | | · | f sedimentary rocks, each |
| | | about the same age. older than the one below it. cording to the principle of cross-cutting re | d. | older than the one above thicker than the one above onships, an intrusive rock b | ve it. |
| | a. b. c. d. | deposited as sedimentary layers. younger than the rocks it intrudes into. always made of the same materials as ro older than the rocks it intrudes into. ich type of geologic event has to occur to | | | ty? |
| | a. b. c. d. | uninterrupted deposition of sediment igneous intrusion into layered rock sediment deposited on older, eroded ignefolding or tilting of rock layers | eous | rock | |

| Name: | | | | | ID: A | | |
|-------|-----|---|--|----------|---|--|--|
| | 7. | The | e laws of superposition and original horiz | ontal | ity are best applied to | | |
| | | a. | all rock types. | c. | sedimentary rocks. | | |
| | | b. | igneous rocks. | d. | metamorphic rocks. | | |
| | 8. | Wh | at are fossils? | | | | |
| | | a. | the oldest layers of rock in a region | | | | |
| | | b. | the remains or traces of an organism pro | | | | |
| | | c. | living creatures with habitats in or arour | | | | |
| | | d. | objects that people of long ago left behi | | | | |
| | 9. | . Which of the following is important if an organism is to become a fossil? | | | | | |
| | | a. | soft parts and slow burial | c. | rapid burial and soft parts | | |
| | | b. | rapid burial and hard parts | d. | hard parts and slow burial | | |
| | 10. | Inde | ex fossils allow geologists to | | | | |
| | | a. | match rocks of the same age in differen | t reg | ions. | | |
| | | b. | determine the exact age of rocks. | | | | |
| | | c. | identify organisms that did not leave for | sil e | vidence behind. | | |
| | | d. | determine why some organisms became | exti | nct. | | |
| | 11. | Rad | lioactivity is produced when unstable nucl | ei | | | |
| | | a. | bond. | c. | become cooler. | | |
| | | b. | break apart. | d. | expand. | | |
| | 12. | Rad | liocarbon dating is used to date | | | | |
| | | a. | geologic events up to 75,000 years ago. | | | | |
| | | b. | geologic events up to 10,000 years ago. | | | | |
| | | c. | geologic events more than 1 million year | rs ag | go. | | |
| | | | all geologic events of the past. | | | | |
| | 13. | . The largest expanse of time on the geologic time scale is the | | | | | |
| | | a. | eon. | c. | era. | | |
| | | b. | epoch. | d. | period. | | |
| | 14. | Hov | w much C-14 will remain after five half-li | ves? | | | |
| | | a. | 1/8th | c. | 1/32nd | | |
| | | b. | 1/16th | d. | 1/64th | | |
| | 15. | Thi | • • | | out it does not include an organism or its remains. | | |
| | | a. | Index | C. | Trace | | |
| | 17 | b. | Cast and mold | d. | Coprolite | | |
| | 10. | | at is a method that geologist use to find Law of superpostion | | Principle or original horizontality | | |
| | | a. b. | Law of superposition Law of cross cutting relationships | c. d. | Radiometric dating | | |
| | | ~• | | ٠. | | | |

| Name: | | | | ID: A |
|-------|-----|---|------|--|
| | 17. | What is needed for fossils to form? | | |
| | | a. warm moist soild | | hard parts and rapid burial loose soil and much oxygen |
| | 1.0 | b. cold water and pressure | | • • |
| | 18. | The changes in organisms over time, due to a | | |
| | | a. survival of the fittest | | organic adaptation |
| | | b. evoluton | d. | gunderson variance |
| | 19. | A mummy would be an example of | | |
| | | a. index fossils | c. | trace fossils |
| | | b. original preservation | d. | cast and mold fossilization |
| | 20. | A sample of a radioactive substance has 80 g grams will be left in 100 years. | gram | ns of mass, and a half-life of 20 years. How many |
| | | a. 2.5 grams | c. | 10 grams |
| | | b. 5 grams | d. | none |

Formative Exam Fossils to Geological Time Answer Section

MULTIPLE CHOICE

| 1. | ANS: | В | PTS: | 1 |
|-----|------|---|------|---|
| 2. | ANS: | C | PTS: | 1 |
| 3. | ANS: | A | PTS: | 1 |
| 4. | ANS: | C | PTS: | 1 |
| 5. | ANS: | В | PTS: | 1 |
| 6. | ANS: | D | PTS: | 1 |
| 7. | ANS: | C | PTS: | 1 |
| 8. | ANS: | В | PTS: | 1 |
| 9. | ANS: | В | PTS: | 1 |
| 10. | ANS: | A | PTS: | 1 |
| 11. | ANS: | В | PTS: | 1 |
| 12. | ANS: | A | PTS: | 1 |
| 13. | ANS: | A | PTS: | 1 |
| 14. | ANS: | C | PTS: | 1 |
| 15. | ANS: | C | PTS: | 1 |
| 16. | ANS: | D | PTS: | 1 |
| 17. | ANS: | C | PTS: | 1 |
| 18. | ANS: | В | PTS: | 1 |
| 19. | ANS: | В | PTS: | 1 |
| 20. | ANS: | A | PTS: | 1 |
| | | | | |