| Name | Date | Period |
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| Name | Daic | I GHOO |

Chapter 12 Concept Review

| Directions: Answer the follo | wing questions using yo | ur notes and textb | ook |
|---|---------------------------------------|----------------------|---------------------------|
| 1replace the hard structure | minerals c | arried by water are | e deposited around or |
| 2. Amber-preserved fossils- o nto amber | rganisms trapped in | | that hardens |
| 3. Most fossils form in | | _ rock | |
| 4. Bestakebeds, and floodplains | for fossiliz | zation include wetl | ands, bogs, rivers, |
| ō rock layers. | _ Dating- estimate of da | te by comparing p | acement of fossils in |
| 6 | dating- technique u | sing natural decay | rate of unstable isotopes |
| 7 foss | sils are another tool to d | etermine the age o | of rock layers. |
| 3. Index fossils- organisms th | at existed only during s _l | pecific spans of tim | ne over large geographic |
| area. Estimate | of rock layers by | the | y contain |
| 9 | time scale- representat | on of the history o | f Earth |
| a. Organizes by major | | or events | |
| b. Uses evidence from | ar | d geologic records | S |
| 10. Miller-Urey experiment (1 simulating conditions on early | | organic compoun | ds could be made by |
| 11. Meteorite hypothesis meteorite or asteroid impacts | | ecules may have a | arrived on Earth through |
| 12. Iron-sulfide bubbles hypot | thesis- biological molect | ules formed in chin | nneys of |
| | vents | | |
| 13. Single-celled organisms o Changed atmosphere by givir | hanged Earth's surface | by depositing | · |
| 14 3 5 hillion years ago | | life evolved | (cyanobacteria) |

| 15. Higheraerobic prokaryotes | levels in atmosphere and oceans allowed evolution | on of | | |
|---|--|-------|--|--|
| 16. Eukaryotic cells may have evolve | d through | | | |
| 17. Endosymbiosis theory- one organ | isms lives within body of another, and both | | | |
| from relationship | | | | |
| a. Early mitochondria and chloroplasts were once simpletaken up by larger prokaryotes 1.5 billion years ago | | | | |
| b. Based theory on fact that mitochondria and chloroplasts have their own | | | | |
| and | - | | | |
| 18. The evolution of | reproduction led to increased diversity | ′ | | |
| 19. One of most important | in history of life | | | |
| a. First appeared during | era (544 million years ago) | | | |
| b. Huge | of animal species evolved | | | |
| 20. Paleozoic Era ended with mass _ | | | | |
| 21. Reptiles radiated during the Meso meteorite impact | zoic era. Era ended with mass extinction caused | by | | |
| 22. Mammals radiated during the | era | | | |
| 23 cat looking eyes, and enlarged brains rela | egory of mammals with flexible hands and feet, fo ative to body size. | rward | | |
| 24. Modern humans arose about | years ago | | | |
| 25. Increased skull and brain size gav | ve humans a advai | ntage | | |