**Exam # 4 Study Guide – Key**

1. **Weathering**
2. **Freezing and thawing of water**
3. **Chemical weathering**
4. **Oxidation**
5. **Rapidly**
6. **Rock type and climate**
7. **Bedrock**
8. **Fertility**
9. **Humus**
10. **Mix the soil and make humus**
11. **Break down and digest the remains of dead organisms**
12. **Erosion by water or wind**
13. **Soil conservation**
14. **Contour plowing**
15. **Is cool**
16. **Earthworms**
17. **Contains many small, connected airspaces**
18. **Rock particles, minerals, decayed organic material, water, and air**
19. **Nearly equal parts of silt, sand, and clay**
20. **Sand, silt, and clay**
21. **Carbonic acid in rainwater**
22. **To retain moisture and hold the soil in place**
23. **Mechanical weathering**
24. **Erosion**
25. **Gravity**
26. **Abrasion**
27. **Tributary**
28. **Meanders**
29. **Deposition**
30. **Alluvial fan**
31. **Deposition**
32. **Karst topography**
33. **They move up and down, but do not move forward**
34. **Wave-cut cliff**
35. **Spit**
36. **Deflation**
37. **Desert pavement**
38. **Loess**
39. **Continental glaciers are much larger and thicker**
40. **Runoff**
41. **Deposition**
42. **Erosion**
43. **Terminal moraine**
44. **Kettle**
45. **Vegetation, rain, and soil type**
46. **Water combines with carbon dioxide as it sinks into the ground, creating carbonic acid, which slowly dissolves the limestone.**
47. **Stalagmite**
48. **Fossil**
49. **Fossils**
50. **Petrified fossil**
51. **Trace fossils**
52. **Fossil in amber**
53. **Paleontologists**
54. **Extinct**
55. **Its age compared to the ages of other rocks**
56. **Fuels**
57. **Combustion**
58. **Natural gas**
59. **Hydrocarbons**
60. **Take hundreds of millions of years to form**
61. **The reserves will eventually be used up**
62. **It will not run out for billions of years**
63. **An active solar system**
64. **Solar energy**
65. **Hydroelectricity**
66. **Nuclear fission**
67. **Heat released from a nuclear fission reaction**
68. **Nuclear fusion**
69. **Reactor vessel**
70. **Reducing energy use**
71. **The percentage of energy that is actually used to perform work**
72. **Recycling aluminum cans**
73. **Fossil record**
74. **Decaying plant remains**
75. **Coal**
76. **Evolution**
77. **Passenger trains**
78. **Refineries**
79. **Wood**
80. **Fluorescent light bulbs**
81. **Geothermal energy**
82. **Insulation**
83. **Nucleus**
84. **Energy**
85. **They tell the relative age of the rock in which they occur.**