**SCIENTIFIC ABILITY**

DIRECTIONS: Multiple choice. Select the best answer.

1. Photosynthesis uses carbon dioxide and \_\_\_\_\_\_\_\_; and produces oxygen and \_\_\_\_\_\_\_.
2. Oxygen; carbon dioxide
3. Water; carbon dioxide
4. Water; glucose
5. Oxygen; glucose
6. Rich sources of vitamin B include whole grains such as the following, except:
7. Wheat and oats
8. Fish and seafoods
9. Leafy green vegetables
10. Milk and yogurt
11. What do we call to the high specialized organelle that serves as the information processing and administrative centre of the cell?
12. Peroxisome
13. Cytoplasm
14. Microtubule
15. Nucleus
16. The profunderance of anabolism over that of catabolism.
17. Growth
18. Reproduction
19. Organization
20. Adaptation
21. The sum total of all physical and chemical processes taking places within the body.
22. Intussusceptions
23. Accretion
24. Metabolism
25. Nutrition
26. A condition whereby different classes of groups of animals assume the same shape or form due to similarities in environment.
27. Convergence
28. Ontogency
29. Irritability
30. Evolution
31. Which of the following contains large amounts of hydrolytic enzymes?
32. Centriole
33. Ribosome
34. Microfilament
35. Lysosome
36. Why do leaves look green in sunlight?
37. They absorb green light
38. The blue and yellow lights of combine
39. They reflect green light
40. The white light bounces off
41. Which of the following organisms can symbiotically associate with a fungus to form a lichen?
42. Mychorrhiza
43. Plants
44. Coral
45. Green algae
46. What is the slope determined by finding the height difference between two points on the water table and dividing by the horizontal distance between the two points?
47. Hydraulic gradient
48. Hydraulic conductivity
49. Hydroelectric power
50. Hydrogenous sediment
51. What is the gaseous portion of a planet earth?
52. Asthenosphere
53. Lithosphere
54. Hydrosphere
55. Atmosphere
56. In which of the following sequences of chemical formulas do all members of the sequence fit the description “heteroatomic and triatomic”?
57. HCN, S2O and O3
58. CO2, NO2 and N2o
59. H2O, SO2, AND CO3
60. More than one correct response
61. Which of the given PAGASA color-coded advisories has more than 15 – 30 mm. rain observed in one (1) hour and expected to continue in the next 2 hours that many cause threatening flood?
62. Red rainfall advisory
63. Orange rainfall advisory
64. Green rainfall advisory
65. Yellow rainfall advisory
66. In the study of ecology, what are the four levels of organization arranged in the correct order?
67. Population, Ecosystem, Community, Biosphere
68. Population, Biosphere, Community, Ecosystem
69. Population, Community, Ecosystem, Biosphere
70. Ecosystem, Population, Community, Biosphere
71. Where can we trace El Niño phenomenon?
72. Changes in season
73. Depletion of the ozone layer
74. Rising ocean levels
75. Red tide
76. What modified stem is used for storage of food?
77. Stem runner
78. Tomato
79. Potato
80. Grass stem
81. In a biotic community, all the members are linked together. An organism either eats or is eaten, thus giving to a relationship called
82. Food chain
83. Food interaction
84. Food link
85. Food pyramid
86. Choose the abiotic component that affects the ecosystem.
87. Water
88. Plants
89. Soil organization
90. Insects
91. What percentage of water of the world’s diseases can be attributed to poor quality of water?
92. 60%
93. 50%
94. 80%
95. 90%
96. A type of symbiosis when one species benefits while the other is neither harmed nor benefited is:
97. Mutualism
98. Commensalism
99. Parasitism
100. Saprobism
101. What group of organisms dominates water at all pH levels?
102. Algae
103. Bacteria
104. Virus
105. Mosses
106. Hard water is :
107. Rare in nature
108. Detrimental to wildlife
109. Beneficial to wildlife
110. Soap and detergent
111. This planet is 67 times larger than the earth. It is twice as far as Saturn is from the sun of twenty times that of the earth from the sun.
112. Uranus
113. Jupiter
114. Neptune
115. Pluto
116. What takes place within the intercellular spaces between the spongy parenchyma cells in the leaves?
117. Water absorption
118. Photosynthesis
119. Production of the periderm
120. Gas exchange
121. What is a tentative explanation that is then tested to determine it is valid?
122. Fact
123. Hypothesis
124. Theory
125. Principles

**ANSWER KEY:**

1. C
2. D
3. D
4. A
5. C
6. A
7. D
8. C
9. A
10. A
11. D
12. B
13. B
14. B
15. C
16. B
17. C
18. A
19. A
20. C
21. B
22. C
23. D
24. C
25. A