Symbiotic Relationships Pre/Post-Test

Name _______________________  Date _________ Period _______ Grade _____/100

The test will cover the following Next Generation Sunshine State Standards:
SC.7.L.17.2 Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism
SC.7.L.17.3 Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.

Directions: Answer each of the following questions below – each multiple choice question is worth 6 points.

1. _____ Which of the following symbiotic relationships is considered parasitic?
   A. Tapeworm in an intestinal tract
   B. Bees transporting pollen from flowers
   C. Pilot fish swimming under sharks
   D. Birds eating the insects from the back of a hippopotamus

2. _____ Ants and acacia trees have a mutualistic relationship because
   A. They both benefit from living with each other.
   B. They are part of the same ecosystem.
   C. They are both adapted to a humid climate.
   D. The ants eat part of the acacia tree.

3. _____ Male bull sea lions fighting for beach master dominance and the first pick of female cows during mating season is an example of which symbiotic relationship?
   A. Competition
   B. Mutualism
   C. Predation
   D. Decomposition

4. _____ What does symbiosis mean?
   A. living separately, no relationship between 2 species
   B. living together, close relationship between 2 species
   C. living in a community with no interaction between each other
   D. living together in fear of each other
5. _____ What type of relationship is Commensalism?

   A. One species benefits and the other is not affected at all.
   B. Both species involved benefit from the relationship.
   C. One species benefits and the other is harmed.
   D. Competing for the same food source

6. Match the following Picture (representation) to the Correct Symbiotic Relationship by drawing a line from the word to the picture that matches the relationship

<table>
<thead>
<tr>
<th>A. Mutualism</th>
<th>A</th>
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<tbody>
<tr>
<td><img src="image1" alt="A smiley face" /> <img src="image2" alt="A smiley face" /></td>
<td><img src="image1" alt="A" /> <img src="image2" alt="A" /></td>
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<table>
<thead>
<tr>
<th>B. Parasitism</th>
<th>B</th>
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<tbody>
<tr>
<td><img src="image1" alt="A sad face" /> <img src="image2" alt="A smiley face" /></td>
<td><img src="image1" alt="A" /> <img src="image2" alt="A" /></td>
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<table>
<thead>
<tr>
<th>C. Commensalism</th>
<th>C</th>
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<tbody>
<tr>
<td><img src="image1" alt="A smiley face" /> <img src="image2" alt="A smiley face" /></td>
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Question 6 answers: 2 points each = 6 Total points

A. ____________

B. ____________

C. ____________
7. _____ What type of symbiotic relationship is shown in this picture?

A. mutualism  
B. predation  
C. parasitism  
D. commensalisms

8. _____ A remora hitching a ride on the shark is an example of which symbiotic relationship?

A. Predator/prey  
B. Mutualism  
C. Parasitism  
D. Commensalism

9. Explain and define what type of relationship this is and give 2 examples of why it is that symbiotic relationship by discussing how each individual organism is directly affected by the other organism. Provide another example of organisms sharing the same symbiotic relationship as the hummingbird and flower. (16 total points)
10. _____ Which of the following relationships identifies a situation in which two species share a requirement for a limited resource thus reducing the fitness of one or both species?
   A. Competition
   B. Mutualism
   C. Parasitism
   D. Decomposition

11. _____ A hawk soaring above a field hunting for a field mouse is an example of which relationship?
   A. Commensalism
   B. Mutualism
   C. Symbolism
   D. Predation

12. ______ is an example of which relationship?
   A. Commensalism
   B. Mutualism
   C. Symbolism
   D. Predation

13. ______ is an example of which relationship?
   A. Commensalism
   B. Mutualism
   C. Symbolism
   D. Predation
14. ______ is an example of which relationship?
   A. Commensalism
   B. Mutualism
   C. Competition
   D. Predation

15. The bacteria in our large intestine break down food that we consider waste. During this process, vitamins are released that we absorb into our bloodstream. This is an example of which symbiotic relationship?
   A. Parasitism
   B. Commensalism
   C. Competition
   D. Mutualism