Unit 3 Mid Term Jeopardy
<table>
<thead>
<tr>
<th>Biodiversity</th>
<th>Ecological Interactions</th>
<th>Population</th>
<th>Succession</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>$100</td>
<td>$100</td>
<td>$100</td>
<td>$100</td>
<td>$100</td>
</tr>
<tr>
<td>$200</td>
<td>$200</td>
<td>$200</td>
<td>$200</td>
<td>$200</td>
</tr>
<tr>
<td>$300</td>
<td>$300</td>
<td>$300</td>
<td>$300</td>
<td>$300</td>
</tr>
<tr>
<td>$400</td>
<td>$400</td>
<td>$400</td>
<td>$400</td>
<td>$400</td>
</tr>
<tr>
<td>$500</td>
<td>$500</td>
<td>$500</td>
<td>$500</td>
<td>$500</td>
</tr>
</tbody>
</table>
System that includes all variety of life in the world or in a particular habitat or ecosystem
What is Biological

$100
System that includes all living (biotic) and non-living (abiotic) things in a community

Daily Double!
What is Ecosystem
$400
What is the relative abundance of Species A?

<table>
<thead>
<tr>
<th>Species Name</th>
<th># of Individuals</th>
<th>Relative Abundance</th>
</tr>
</thead>
<tbody>
<tr>
<td>German Shepherd</td>
<td>47</td>
<td>Species A</td>
</tr>
<tr>
<td>Dalmatian</td>
<td>57</td>
<td>27%</td>
</tr>
<tr>
<td>Labrador Retriever</td>
<td>48</td>
<td>23%</td>
</tr>
<tr>
<td>Pit bull</td>
<td>60</td>
<td>Species D</td>
</tr>
<tr>
<td>Species Richness = 4</td>
<td>Total #: 212</td>
<td></td>
</tr>
</tbody>
</table>

Answer
What is 22% of $300?

\[
\frac{47}{212} \times 100 = 22\%
\]
The community with the greater relative abundance

<table>
<thead>
<tr>
<th>Species Name</th>
<th># of Individuals</th>
<th>Relative Abundance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Siberian Husky</td>
<td>131</td>
<td>33%</td>
</tr>
<tr>
<td>Cocker Spaniel</td>
<td>147</td>
<td>37%</td>
</tr>
<tr>
<td>American Bulldog</td>
<td>120</td>
<td>30%</td>
</tr>
<tr>
<td>Species Richness = 3 Total #: 398</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Species Richness = 3 Total # = 422
What is Community A
$400
Explain how a community would look if it was biologically diverse
What is the relative abundance would be the same or closer in percentage $500
A tick attaches itself to a dog. The tick begins to consume the dog’s blood supply without replenishing.
What is Parasitism
$100
In a crowded forest community, the light and nutrients available are limited. All tree species in this community need light and nutrients to obtain their food and reproduce. Some may not survive.
What is Competition
$200
Barnacles attach themselves to whales which gives them a place to live. The whale is unharmed and does not pay much notice.

Daily Double!
What is Commensalism
$600
Sea anemones give protection to a crab using its stinging cells, and it remoulds its shell to fit the crab while the hermit crab allows the sea anemones to consume the remains of its food, thus it also provides the sea anemones with food supply.
What is Mutualism
$400
The graph below illustrates:
What is Mutualism
$500
The curve type of Exponential Growth and Logistic Growth
What is a J-Curve for Exponential Growth and a S-Curve for Logistic Growth?
The 2 factors that increase/decrease population
What is Increases: Immigration and Greater Birth Rate

Decreases: Emigration and Greater Death Rate

$200
The type of graph that shows carrying capacity and where it occurs on the graph
What is a logistic growth graph and it occurs where the population stops increasing (levels out)?
Name 2 examples of limiting-dependent factors and what size of population they affect
What are Competition, Parasitism by disease, or Predation and they affect LARGE (increasing) Populations.

$400
Name 2 examples of limiting-independent factors and what size of population they affect.
What are Natural Disasters, Drought and Flood and they affect ANY size population.

$500
What does each type of succession begin with and which takes longer to rebuild?
What is rock in primary succession and soil in secondary succession. Primary succession takes longer $100
Name 2 examples of Primary Succession
What are volcanic eruptions and glacial retreat
$200
Name 2 Examples of secondary succession
What are deforestation, forest fires, and farming?
Which succession takes longer and why?
What is primary succession because it begins with rock instead of soil

$400
Why do trees begin to show up much later than herbaceous/ground plants
What is the longer time it takes to grow and the greater amount of nutrients needed?

$500
Where the wolves were introduced to decrease the population of elk
Where is Yellowstone
$100
The first species to colonize a community
What is Pioneer Species
$200
A stable, mature community as long as it is not often disturbed
What is a climax community
$300

Climax Communities

Forest
Desert
Grassland
Coral Reef
Daily Double!

Answer
Plainfield East!

$800
Type of bird that represents Thanksgiving
Turkey!
$500