Zoology Study Guide

Unit 2: Animal Behavior

Altruistic Behavior

1. What is altruistic behavior?
   1. Who is the actor and who is the recipient?
   2. Give 2 examples (consider including the warning call and group defense)
2. How does it work?
3. How is it advantageous for your fitness to protect another organism? (Include the 3 hypothesis and which one is most supported)

Righting Time Lab:

1. Why is turtle flipping time a measure of fitness
2. Why did we average multiple turtles from each group?
3. What were the 2 incubation regimes? How are each created?

Avoiding Predation

|  |  |
| --- | --- |
| **Types of Predation Avoidance** | **3 examples of each** |
| 1) **Avoid** detection by predator | 1)  2)  3) |
| 2) Avoid attack by predator once detected | 1)  2)  3) |
| 3) Avoid capture by predator once attacked (or pursued) | 1)  2)  3) |
| 4) Avoid consumption by predator once captured | (Only 1 example needed) |

Animal Communication

1. What is the purpose?

2.

|  |  |  |
| --- | --- | --- |
| **Form of communication** | **How it works** | **Example of an organism** |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |
| 7. |  |  |

Bee Communication

1. What is the prevailing scientific explanation of what drives the hive mind?
2. What is haplodiploidy and how does it work?
3. What are the 3 methods of bee communication?

|  |  |  |
| --- | --- | --- |
| **Method #** | **Method** | **Why is it used/What does it communicate?** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

1. What is the queen substance and what does it affect?
2. What does the language of dance communicate to other bees?
3. The 3 dances:

|  |  |  |
| --- | --- | --- |
| **Dance** | **How it works** | **When its used** |
|  |  |  |
|  |  |  |
|  |  |  |

Pheromone and Scraps of Behavior

1. Explain how humans use pheromones? (Include immune response)

|  |  |
| --- | --- |
| To Find Mates |  |
| In Advertising |  |
| To Control Insect Populations |  |

1. What is a releaser?
2. What is a FAP (in animals behavior)
3. Mating systems: (what is it, describe how it works and give an example)

* Monogamy:
* Polygamy:
  + Polygyny:
  + Polyandry:

1. Lek Behavior

* Are there any parallels to human behavior?

1. Imprinting:

* What:
* Who does it:
* Explain Konrad Lorenzes Key Study: <http://www.youtube.com/watch?v=2UIU9XH-mUI>
* What is the evolutionary reason for it?

1. What is the difference between aggression and violence?

* Why would a species evolve to show aggression before violence?
* What does a ritualized display have to do with it?
* Give an example: