**Species Interactions** (p. 133 – 140)

**I. The Niche & Competition**

**1. Define the term niche in two ways.**

Niche –

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**2. Define the term tolerance and give examples of specialists and generalists.**

Tolerance –

Specialists : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Generalists : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3. Match each type of competition with the correct definition.** *(Some not in the book)*

1. \_\_\_\_\_ Character Displacement A. Competition between different species

2. \_\_\_\_\_ Competitive Exclusion B. Resources divided by specialization

3. \_\_\_\_\_ Contest Competition C. Resource competition without direct contact

4. \_\_\_\_\_ Interspecific Competition D. Hierarchal order within a species

5. \_\_\_\_\_ Intraspecific Competition E. Competition among members of the same species

6. \_\_\_\_\_ Resource Partitioning F. Reduction of competition due to natural selection

7. \_\_\_\_\_ Scramble Competition G. Competition of areas, mates, or possessions

8. \_\_\_\_\_ Social Dominance H. Competition involving physical contact

9. \_\_\_\_\_ Territoriality I. One species removes another from the niche

**4. How is a fundamental niche different than a realized niche?**

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**II. Predation, Parasitism, & Herbivory**

**1. Match the terms with the correct definitions.**

1. \_\_\_\_\_ Herbivory A. One species hunts, captures, kills, and consumes another species

2. \_\_\_\_\_ Parasitism B. Interaction of an animal feeding on a plant

3. \_\_\_\_\_ Predation C. Long-lasting, close association of two species

4. \_\_\_\_\_ Symbiosis D. One species depends on another species for nourishment

**2. Explain how wolves and moose exhibit population cycles.**

**3. Give examples of the following prey adaptations.** *(Some not in the book.)*

1. Alarm Calls : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Camouflage : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Distraction Displays : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Mimicry : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Poisons : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Protective Coverings : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Shells : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Thorns : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Warning Coloration : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**III. Mutualism & Commensalism**

**1. Define the following terms and give an example of each type of interaction.**

Mutualism –

*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Commensalism –

*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_