

Name: _____

Student #: _____

BIO3176 – Animal Behaviour

Professor Adam Oliver Brown

Practice Midterm 1

October 19, 2012

INSTRUCTIONS:

- This is a closed book exam
- write your name and student # at the top of EACH page
- check that your exam is complete, there are 6 pages in all
- think carefully and answer the questions thoughtfully, drawing upon the information and using the terminology that you have learned in this course
- this exam will last for 80 min.
- Good Luck!

Terminology	/10
Short Answer	/20
Long Answer	/10
Total	/40

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Part I - Terminology: (5 points each) – Define and contextualize the following terminology by comparing and/or contrasting the terms below and by providing a brief description of their utility to studying or communicating the field of Animal Behaviour.

1) Risk dilution vs. group defense

2) Source vs. sink habitats

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Part II – Short Answer: (5 points each) – briefly and concisely discuss the following concepts as they relate to this course.

1) Explain how an interaction between genes and the environment allow for animals like the Honey Bees to switch behaviour over the course of their lives.

2) Compare and contrast the relative costs and benefits of testosterone production in male vertebrates. How do these factors determine the timing of testosterone production in male animals?

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3) Compare and contrast the use of divergent vs. convergent evolution to explain the development of a particular behaviour among and within animal phylogenetic trees.

4) Describe how 'come and get me' behaviours can evolve in animals under the selection pressure of predation.

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