Write your name on the back of this exam. Do not write your name on the front.

Biology 316- General Entomology
Exam III
Spring 2004

Spelling and grammar count. This exam is worth 100 points. Complete sentences are required; please do not list things.

PLEASE DO NOT ATTEMPT TO WRITE AN ENTIRE THESIS. A complete answer should not require more than one page.

Please answer the following question:
What is bioindication? (11 point each)

Compare and contrast how bioindication is used in aquatic and terrestrial systems. Focus on two aspects. (11 points each)
Answer TWO of the following three questions. Only answer two. If you answer more than two, I will grade only the first two.

1) Carefully compare and contrast herbivory and predation/parasitoidism with regard to morphology, host specificity, and behavior. Be sure you discuss both herbivory and predation/parasitoidism in each part of your answer. (11 points each) "Compare and contrast" means "how are they similar and how are they different."
2a) How is IPM different from traditional pest control tactics (3 points)?

2b) Describe three methods of control that are commonly used in IPM programs and give an example of each (10 points each). (33 points)
3) Choose three the medically important orders. For each order, choose a disease with which members of each order are involved. For each disease describe its prevalence, the insect involvement, the disease-causing agent, and the region of the world where it occurs. (11 points each)