Bio 112 Handout for Ecology 3

This handout contains:
- Today's iClicker Questions
- Handout for today's lecture

iClicker Question #31A - <u>before</u> lecture

Which of the following are examples of predation (in the Bio 112 sense)?

A. A cheetah eating a gazelle.
B. A tapeworm growing in your intestine.
C. The flu virus making you sick.
D. All of the above
E. None of the above

iClicker Question #31B - <u>after</u> lecture

Suppose that the most complex model of the lynx/hare oscillation (#4) is correct. What would happen if you maintained a constant population of hares by adding or removing individuals as necessary?

(A) The lynx population would stop oscillating.
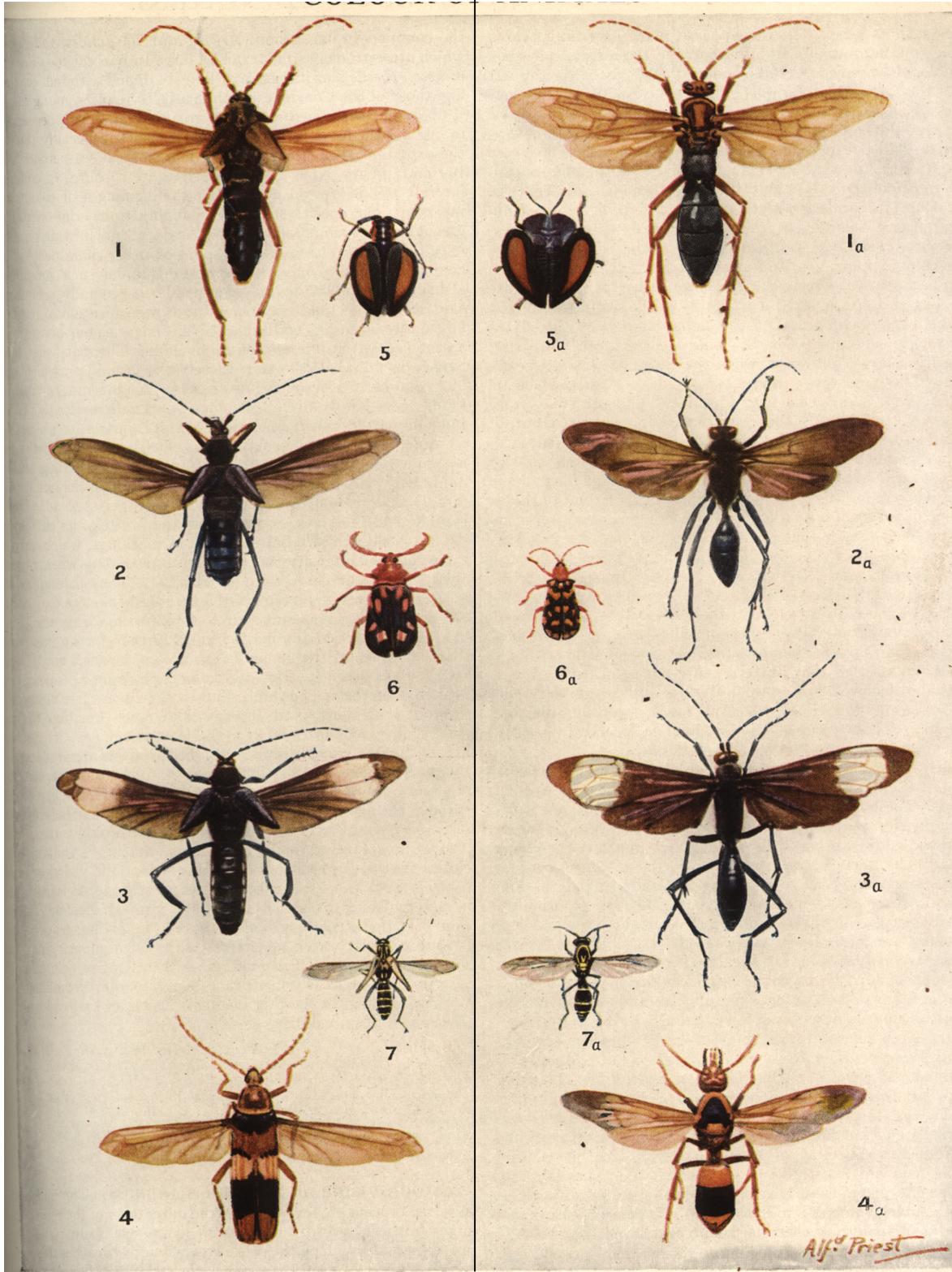(B) The lynx population would continue to oscillate.
(C) I don't know.

Beaming in your answers

1. Figure out your answer and select the appropriate letter (A-E).
2. Turn on your iCliker by pressing the "ON/OFF" button; the blue "POWER" light should come on. If the red "LOW BATTERY" light comes on, you should replace your batteries soon.
3. Transmit your answer as follows:
   a. Press the button corresponding to the answer you've selected (A thru E).
   b. The "STATUS" light will flash green to indicate that your answer has been received. If the "STATUS" light flashed red, your answer was not received; you should re-send it until you get a green "STATUS" light.

Bio 112 Mimicry

Palatable Beetles (Mimics)
- look like nasty ones but
are perfectly edible {1-7}

"Nasty" insects
- wasps (stinging) {1a-4a & 7a}
- unpalatable beetles (taste bad) {5a & 6a}

Ecology 3 - 2

Bio 112 Predator-Prey Oscillations

trees grow
(set up simulation)

one cycle

another cycle

Population
of Trees

Population of
Gypsy Moths

trees grow
fast without
GM

few trees left
GM starve

Gypsy moths
eat trees &
reproduce
rapidly

2000
1800
1600
1400
1200
1000
800
600
400
200
0

50 100 150 200 250 300 350 400 450 500 550 600

Ecology 3 - 3

■ Pop of Trees   ■ Pop of Gypsy Moth

Ecology 3 - 4