

## What you need to know for the Final

What is meant by Economic Injury Level and Economic Threshold. Draw a graph and indicate an insect population (growth in number) through time and where the EIL and ET might fall

What is meant by chemoreception? By what two methods do insects perceive chemical signals? Describe the basic components of chemical communication.

How does a male moth find a female moth (as discussed in the sensory physiology part of this course)? Explain the process that the male goes through to locate a female.

The use of bacteria and viruses to control insects is termed microbial control. What is a major concern on the part of the public that has (and may into the future) slow the development of microbial control – explain.

What are allomones, kairomones, and pheromones? Give two insect use examples of each. Can these substances be used to control insects – how?

What are five different categories of pheromones found in insects (e.g., alarm pheromones)?

What is meant by crypsis? What items do insects mimic? What is Mullerian mimicry? Batesian mimicry?

In early Egyptian culture what did the scarab beetle represent? What about the biology of the scarab beetle did the Egyptians find interesting? How did the Egyptians use scarab beetles? What is "The Book of the Dead?"

Who (from an entomological sense) is Ba'al Zebub? Who (from a religious sense) is he (she)?

What are the three primary methods by which sound is produced in insects? Present examples.

Describe what is meant by a "file and scrapper" method of sound production in insects. In what insects do you find this type of sound production? What is the difference between a tympanum and Johnston's organ?

How did the development of agriculture affect the development of human society?

Please define what is meant by a subeconomic, an occasional, and a key pest.

What characteristics would be seen in organisms that are r-selected and K-selected? At what end of the continuum do most insects fall? Where do humans fall?

What do the terms biomagnification and bioaccumulation mean? In what context were they used in this course?

Contrast the terms broad spectrum and narrow spectrum and residual and nonresidual in the context of this course (as we discussed with insecticides).

What are the advantages of using chemical pesticides? What are the disadvantages of using chemical pesticides? (As described in this course)

What is reflex bleeding? What purpose does it serve? Name one insect in which reflex bleeding is found.

What does the term transgenic mean? What are differences between a predator and a parasite?

What insect representations are used for the gods Psyche and Mylitta?

What insect is depicted in a monument established by Mormons in Salt Lake City, Utah? What is the story behind it?

What is crypsis? What items do insects mimic? What does "disruptive coloration" mean? - Give examples.

Of the ten plagues called upon the Egyptians by Moses (with the help of God), how many involved insects? What were the insects? If I were an Orthodox Jew, could I eat insects? If so, what insects?

What was the first state to have a state insect? Does Washington have a state insect? What is the most common "state insect?" Is there a national insect?

Why are the Charlotte Hornets of the National Basketball Association named the Hornets?

List four examples of "insect clichés." What do they mean?

What does the term proctodeal feeding mean in relation to termites? Why do they perform this behavior?

What insect vectors:  
Chagas' Disease  
Onchocerciasis  
Human Malaria  
Plague

What does the Pied Piper and the rhyme "Ring around the Rosie" have to do with entomology?

Both termites and carpenter ants ingest wood. What is the difference between them?

In examining the cement foundation of your home, how would you know if you had an infestation of subterranean termites? What is a primary difference in moisture requirements between subterranean termites and drywood termites?

What are the five methods (as discussed in class) by which arthropods affect human health and well being?

In part (the entomological part), why was France willing to sell the "Louisiana Territory" to the United States?

What is the difference between entomophobia and delusory parasitosis?

Explain what is meant by "maggot therapy." What is allantoin?

What is meant by "brood" in a yellowjacket nest? What is meant by "paper?"

What are the emergency and long term treatments for individuals that suffer severe reactions to yellowjacket stings? Do long term treatments work equally well in all individuals?

What are the differences in the types of damage that one would suffer if bitten by a black widow or a brown recluse spider?

What is a parasite? What are the differences between an obligatory and a facultative parasite?

What are the three types of "human lice?" Where do they occur on the body? Where do they lay their eggs? What is the most dangerous of the three from a disease transmission standpoint? What are nits?

What is myiasis? What control method was used to eradicate the screwworm fly from the United States?

How is plague spread from person to person and from country to country? Why do some call plague the "Black Death?" Do we have to worry about plague in the United States?

From a cultural standpoint, what changes were initiated by the discovery that social insect colonies were actually matriarchal and not patriarchal (discovery during the late 1700's)?

When and where do bed bugs feed? If you were asked by a friend to let them know if they had an infestation of bed bugs, where would you look for the critters?

Define the following terms:

1. disease
2. arbovirose
3. vector
4. pathogen
5. reservoir (from a disease standpoint)

What is xenodiagnosis? With what arbovirose is xenodiagnosis associated? What are the vectors and pathogens of this disease?

How is plague spread from person to person and from country to country? Why do some call plague the "black death?" Do we have to worry about plague in the United States?

What does the condition sickle cell anemia have to do with malaria?

What is forensic entomology? What is a maggot mass? How are insects used to estimate time of death? What are some of the arthropods that come to a dead body? Which are among the first to arrive?

What was the reason that most people did not bathe (often) throughout much of the Middle Ages and into the early part of this century?

Where would one encounter the arboviral disease onchocerciasis? What vectors the disease and what is the pathogen? In what habitat is the disease most common - why? What is an all-too-common result of this disease?

What is mead?

What are three of the four primary products produced by bees and used by humans? Explain a little about each of the products.

Tell me a little about PCO's and what they do. How are cockroaches a nuisance. When and where to you find them. Why are they such a problem to control?

What is the common name of the honey bee in most of the United States? Why are African honey bees a problem - how are they different from our US bee? From what is honey made? How is it made? What does honey contain?

Who is Eric Carle?