



Final Exam Review

11 May 2012

General Information

- Exam takes place Wednesday, May 23rd 9:00 AM – 11:30AM
- Takes place in “CONC HALL” – 1P, the building we have class in on Mondays
- You are in section 2385, my last name is McKelvy (You will need these, so write them down)
- Scantrons and Tests will be provided, but you will need a #2 pencil (or two) to complete the test.

Exam Format

- Exam will be worth 125 points (compare that to 85 points for each of your tests in class)
- Two sections
 - 80 Multiple choice questions
Scantron based
 - You choose 3 essays out of 7

Exam Content

- Exam is comprehensive
- I do not write the exam
(May be a few strange questions)



Exam Strategies

- Use your time wisely
- Multiple Choice
 - Don't spend a lot of time on each question
 - Narrow down answers you know quickly, but make sure you understand the question

For example:

The correct order of classification from most general to most specific is which of the following:

- A. Domain-Kingdom-Phylum-Class-Order-Family-Genus-Species
- B. Kingdom-Domain-Class-Phylum-Order-Family-Genus-Species
- C. Kingdom-Class-Phylum-Domain-Genus-Order-Family-Species
- D. Kingdom-Class-Phylum-Domain-Genus-Order-Family-Species
- E. Kingdom-Domain-Class-Phylum-Order-Genus-Species-Family

Exam Strategies continued

- If one answer is incorrect, don't bother looking at an answer that offers "all of the above"
- For example:

A reflex action:

- A. is an automatic, involuntary response
- B. does not require the central nervous system
- C. is normally controlled consciously
- D. is only found in humans
- E. all of the above

Exam Strategies continued

- Some questions may seem difficult at first.

Example:

The enzyme that breaks down acetylcholine within the neuromuscular junction is:

- A. Acetylcholinesterase
- B. Monoamine oxidase
- C. Glutamic acid decarboxylase
- D. Lipase
- E. maltase

Use what you know to answer the question.

Essay Strategies

- Answer the entire question!
- For example:
 - Describe in detail five different organelles found in eukaryotic cells and their functions. Explain how eukaryotic and prokaryotic cells are similar and how they are different.

There are two parts to this question. For full points, you need to answer both.

Note that each parts also has subparts:

Five organelles and their functions

Similarities of euks and proks

Differents of euks and proks

Important Essay Information

- Trace the path of blood through the heart, explaining the functions of each structure. Be able to distinguish left or right
- Be able to show where at least 5 hormones are produced, the targets, and what happens to the target. Know the difference between steroid and non steroid hormones.
- Go over microanatomy of a muscle fiber and be able to explain the sliding filament model
- Light dependent and Calvin reactions – be able to describe
- Aerobic respiration – be able to describe with reactants, products, where each part occurs.
- Structure of proteins – levels of organization.
- Enzymes and what factors influence their functioning

Important Resources

- Book
- Lecture Slides
- Old Tests
- Peers



- YouTube (But be careful)