

**WSU BIOLOGY 106 EXAM 3 ACTUAL EXAM 2 LATEST
VERSIONS (VERSION A & B) 2023-2024 ACTUAL EXAM 210
QUESTIONS AND CORRECT DETAILED ANSWERS WITH
RATIONALES | ALREADY GRADED A+**

VERSION A

What role do each of the components of natural selection play in

What two traits allowed the arthropods to diversify so much? -

ANSWER- -segmented body

-jointed appendages

Give some examples of tagma in arthropods - ANSWER- The
appendages can be used for:

-feeding

-locomotion

-defense

Molting - ANSWER- Process in which an arthropod sheds its
exoskeleton and manufactures a larger one to take its place

What are the major groups of arthropods? - ANSWER- -Chelicerata

-Crustacea

-Insecta

Describe complete vs. incomplete metamorphosis (insects) - ANSWER-
Complete: is where the larvae look different than the adults

Incomplete: means the larvae look just like the adults

The echinoderms exhibit pentaradial body plans, so why are they included in the Bilateral animals (the "Bilateria")? - ANSWER- **Because their larvae exhibit bilateral symmetry**

What are the three subgroups of Chordata (both scientific and common names for two)? - ANSWER- **-Urochordates (Sea Squirts)**

-Cephalochordates (Lancelets)

-Vertebrates

Which are the "invertebrate" chordates? - ANSWER- **-Urochordates**

-Cephalochordates

What do the various chordate defining traits become in the Vertebrates?

(e.g., the notochord becomes the vertebral discs) - ANSWER- **The pharyngeal arches become the jaw**

Why are "essential amino acids" called "essential" - ANSWER- **-make a complete set of proteins**

-are required in the human diet

What is chemical energy used for? - ANSWER- **-it is converted into ATP**

-then used for growth, reproduction, and repair

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Which macromolecules (protein, sugar, fat, starch) are major components of carnivore, herbivore (foliage, seeds, fruit), omnivore diets? - ANSWER- **Carnivore:**

-lipids (fats)

-proteins

Herbivores:

-foliage - sugar

-seed - protein

-fruit - sugar

What is the advantage of a complete gut (as opposed to a gastrovascular cavity)? - ANSWER- **An animal with a complete gut can ingest foods while earlier meals are being digested**

What happens to ingested food during ingestion? - ANSWER- **It mixes with saliva to become a bolus and some carbs are digested**

What enzymes are involved during the ingestion of food? - ANSWER- **Amylase (in saliva)**

What name is given to the chewed up food? - ANSWER- **Bolus**

What aspects of digestion occur in the stomach? Protein digestion - ANSWER- **Protein digestion**

What chemicals make up the gastric juice? - ANSWER- **HCl , (Pepsin) Pepsinogen**

How does the body prevent the gastric juice from digesting the stomach itself? - ANSWER- **Replacement of the epithelial layer every 3 days and mucus secretion from the gastric glands**

What is the mix of food and digestive juice called? - ANSWER- **Chyme**