

A.P. Biology Bowl Question Bank

1. Many biologists think that a phylogenetic relationship exists between annelid worms and mollusks because both animals
 - W. possess a segmented body
 - X. Possess a centrally located visceral mass
 - Y. Feature a ciliated larva called a trochophore in their life cycles
 - Z. Display cephalization
2. Which of the following functional groups represents a product of fermentation
 - W. Carbonyl group $C=O$
 - X. Hydroxyl group $-OH$
 - Y. Sulfhydryl group $S-H$
 - Z. Carboxyl group $-COOH$
3. The rise of water in a plant stem is due primarily to
 - W. Hydrotropism and companion cells
 - X. Photolysis and chemiosmosis
 - Y. Turgor pressure and membrane potential
 - Z. Cohesion and transpiration
4. Which of the following correctly describes retroviruses?
 - W. They reproduce only in the cells of epithelial tissue
 - X. They transfer genetic information from the RNA to the DNA of the cell
 - Y. They lack the enzyme reverse transcriptase
 - Z. They transfer genetic information from their RNA to the ribosome in a cell
5. Some taxonomists have proposed adding a new taxon to the modern system of biological classification that includes viruses. The inclusion of the new taxon is based on
 - W. The chemical nature of the capsids
 - X. Similarities in RNA nucleotides
 - Y. Differences in glycoproteins that envelop capsids
 - Z. Their ability to alternate between hosts species
6. A hormone involved in digestion is
 - W. Cholecystokinin
 - X. Enterokinase
 - Y. Vasopressin
 - Z. Enkephalin