Answer Key

Plants, Animalia, Porifera, Cnidarians

Review Questions

1. What are the 2 types of vascular tissue, and what are their functions?

Xylem= Bringing water from the roots up the stem to the leaves

Phloem= Brings nutrients throughout the plant

1. How do fruits aid in the dispersal of angiosperms?

Animals will eat the fruit and spread the seeds as they pass through the animals digestive system far from the parent plant.

1. Why is the movement of water key to a sponge’s survival?

Water is needed for sponges to undergo all of its essentials function. (Ex feeding, excretion, reproduction…etc)

1. Why are sponges classified as animals?

They are heterotrophic, and lack cell walls.

1. Describe how a sponge feeds.

Microscopic food particle in the water are trapped by the choanocytes as water passes through the pores and out the osculum. Food is digested by the archaeocytes.

1. What triggers a sponge to produce gemmules?

Harsh environmental conditions, such as drought or low temperatures.

1. Describe the major characteristics of cnidarians.

Tentacles, stinging cells, carnivorous,

1. Describe how the capture and digestion of food take place in cnidarians.

They sting and paralyze their prey with their cnidocytes and pull their prey into their mouth with the use of their tentacles. Digestion happens in the gastrovascular cavity