Biology 0871 Chapter 26 : Sponge: **Practice Questions**

1. What is an animal? What characteristics do all animals share? P657
2. What is an invertebrate? P657
3. What essential functions do animals carry out? P658-659
4. What are the important trends in animal evolution? P660-663, omit p661
5. What is cephalization? P663
6. What is a body cavity? Draw a representation of a body cavity. P663
7. What is a **sponge**? What phylum does a sponge belong to? Does a sponge exhibit symmetry? P664
8. Does a sponge have a:

Nervous system? If not, how does a sponge respond to it’s environment?

Digestive system? If not, how does a sponge obtain/digest food?

Excretory system? If not, how does a sponge get rid of wastes?

Circulatory system? If not, how do gases and nutrients travel from cell to cell in

a sponge?

Respiratory system? If not, how does a sponge obtain oxygen and get rid of

 carbon dioxide?

Reproductive system? If not, how does a sponge reproduce?

Skeletal System?

1. Is the **osculum** of a sponge, the sponge’s mouth? If not, then what is it’s function?
2. Is the **central cavity** of a sponge a digestive cavity? If not, what is it’s function?

11. What are the **spiny** **spicules** of a sponge? What are they made of? What type of

 cell makes the spicules?

12. What does it mean that sponges are **filter feeders?**

13. Sponges use **internal fertilization**, what does this mean? What is a larva? A

 gemmula?

14. Why would sponges be unable to live on land?

15. Describe one mutually beneficial relationship that may exist between a sponge

 and an aquatic organism. P667.