

Introduction to Kingdom Animalia (Metazoa)

Chapter 26-1 (page 554-560)

Trends in Animal Evolution

- 1) What is meant by “the levels of organization become higher as the animals become more complex in form”? (p. 559)
- 2) In general, compare simple animals to complex animals on the basis of symmetry
- 3) Explain radial symmetry (give example) and draw a diagram
- 4) A. Explain bilateral symmetry (give example)
B. Explain the 4 main regions of the body
C. Draw a diagram of a fish and indicate the 4 regions using colour shading
- 5) What advantages are there to more complex animals having a concentration of sense organs and nerve cells in the anterior (head) end?
- 6) What is cephalization and why is it found in the head region?
- 7) What are ganglia?
- 8) What are large clusters of nerve cells called?
- 9) Why are specialized cells necessary in multi-cellular animals?
- 10) Define the seven essential functions of animals in your own words.

