**Characteristics Of Animals** (p. 594 – 603)

**I. General Features Of Animals**

**1.** **Animals are heterotrophic organisms.**

Circle One : True False

**2. List different ways in which animals can move.**

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**3. All animals are multicellular.**

Circle One : True False

**4. Circle the letter of the chromosome state of each of the following in animals.**

Adult Animal : Diploid Haploid

Gametes : Diploid Haploid

**5. What is the most common form of reproduction for animals?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6. What is the advantage of animals not having a cell wall?**

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**7. Match the cell developmental stages with the correct definitions.**

1. \_\_\_\_\_\_\_\_ Blastula A. Develops into digestive, respiratory, & urinary systems.

2. \_\_\_\_\_\_\_\_ Ectoderm B. Develops into skeletal, muscular, & circulatory systems.

3. \_\_\_\_\_\_\_\_ Mesoderm C. Hollow ball of cells.

4. \_\_\_\_\_\_\_\_ Endoderm D. Develops into skin, nervous system, & sense organs.

**8. All cells of animals (except sponges) are organized into tissues.**

Circle One : True False

**II. Body Symmetry**

**1. Differentiate between the following body plans and give an example of each body plan.**

Asymmetrical : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Radial Symmetry : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bilateral Symmetry : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. Match the term with its meaning.**

1. \_\_\_\_\_\_\_\_ Anterior A. Upper Side

2. \_\_\_\_\_\_\_\_ Posterior B. Back End

3. \_\_\_\_\_\_\_\_ Dorsal C. Front End

4. \_\_\_\_\_\_\_\_ Ventral D. Lower Side

**3. What is cephalization?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**III. Internal Body Cavity**

**1.** **Differentiate between the following internal body cavity plans and give an example.**

Coelomates : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Acoelomates : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pseudocoelomates : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. What is an advantage of a having a true coelom?**

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**IV. Body Segmentation**

**1. Circle the letter of the sentence that is false concerning animal segmentation.**

a. Segmentation is easily visible in all animals, regardless of their stage of development.

b. Earthworms are highly segmented animals.

c. Segmentation has allowed for greater flexibility and movement of animals.

d. Damage to a segment still allows segmented animals to perform vital life functions.

**V. Kinds Of Animals**

**1. Define the term phylogenic tree.**

Phylogenic Tree –

**2. What two groups is the animal kingdom split into?**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_