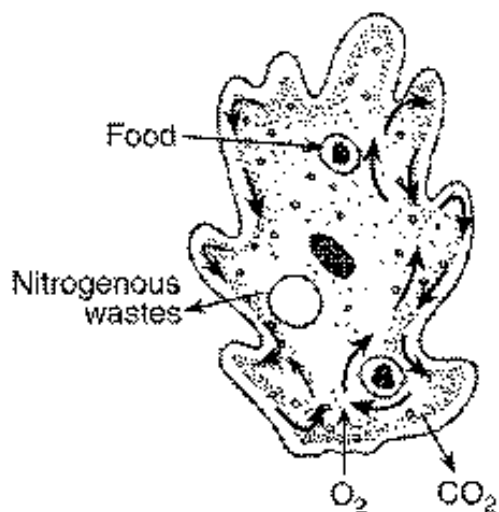


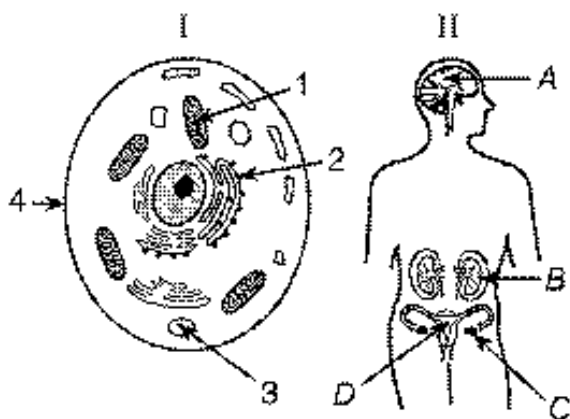
Name: _____

- 1) In the given diagram of a single-celled organism, the arrows indicate various activities taking place.



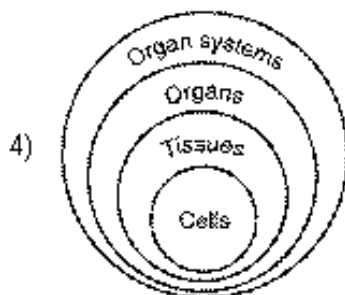
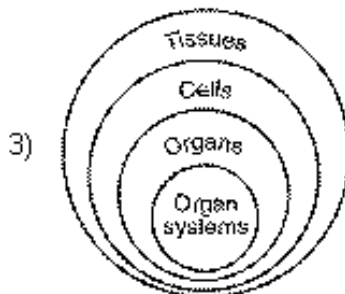
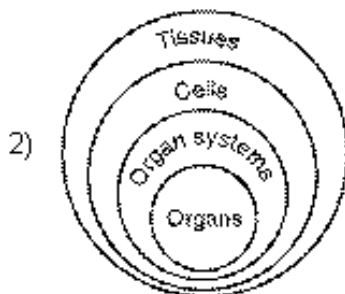
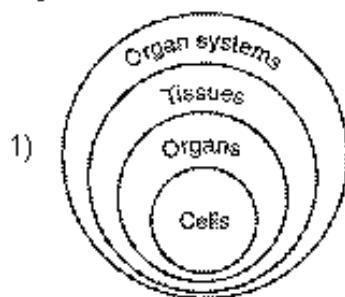
Which systems perform these same activities in humans?

- 1) respiratory, excretory, and digestive
 - 2) digestive, circulatory, and immune
 - 3) respiratory, nervous, and endocrine
 - 4) excretory, respiratory, and reproductive
- 2) Which structures in diagram I and diagram II carry out a similar life function?

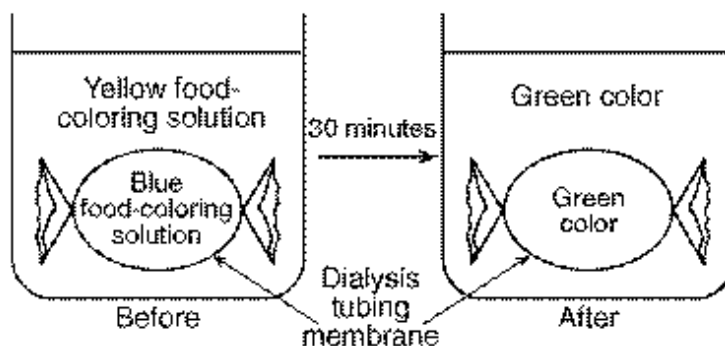


- 1) 3 and A
 - 2) 2 and D
 - 3) 4 and B
 - 4) 1 and C
- 3) Which sequence illustrates the increasing complexity of levels of organization in multicellular organisms?
- 1) organelle, cell, tissue, organ, organ system, organism
 - 2) cell, organelle, tissue, organ, organ system, organism
 - 3) cell, organism, organ system, organ, tissue, organelle
 - 4) organelle, tissue, cell, organ, organ system, organism

- 4) Which diagram best represents the levels of organization in the human body?



- 11) The diagram below shows the changes that occurred in a beaker after 30 minutes. The beaker contained water, food coloring, and a bag made from dialysis tubing membrane.



Which of the following statements *best* explains the changes shown in the diagram?

- 1) Molecular movement was aided by the presence of specific carbohydrate molecules on the surface of the membrane.
 - 2) Molecules moved across the membrane only when additional energy was supplied.
 - 3) Molecules moved across the membrane without additional energy being supplied.
 - 4) Molecular movement was aided by the presence of specific enzyme molecules on the surface of the membrane.
- 12) Organelles carry out specific processes involving chemical reactions. In the chart below, identify *two* organelles and, for each, identify a process involving chemical reactions that occurs there. Describe *one* specific way each process identified is important to the functioning of the organism.

Organelle	Process Involving Chemical Reactions that Occur in the Organelle	How the Process is Important to the Functioning of the Organism
(1) _____ _____	_____ _____ _____	_____ _____ _____
(2) _____ _____	_____ _____ _____	_____ _____ _____