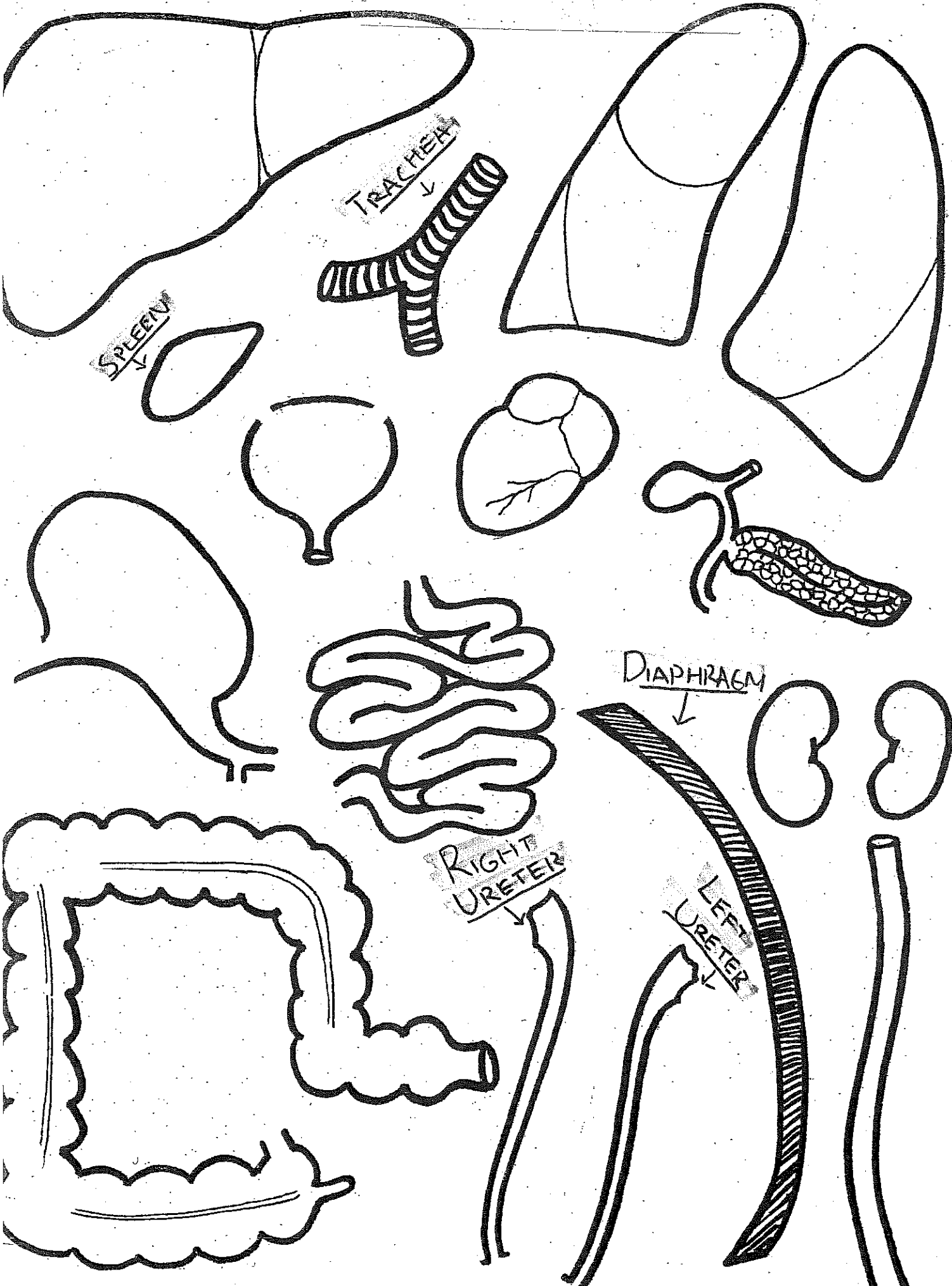


<u>Organ #</u>	<u>Organ Name</u>	<u>Function</u>	<u>Color Key</u>
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
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18			
19			
20			
21			



SPLEEN
↓

TRACHEA
↓

DIAPHRAGM
↓

RIGHT
URETER
↓

LEFT
URETER
↓

FROG DISSECTION

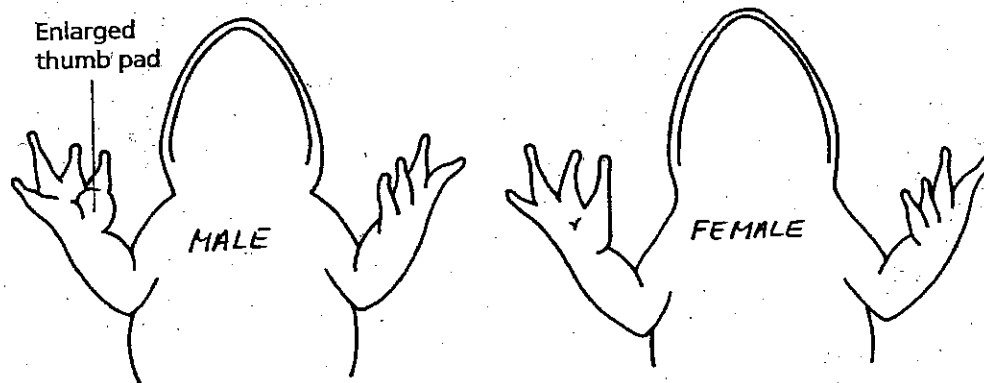
Materials:

- | | |
|------------------------|-----------------------|
| 1 Frog | 1 Dissecting Scissors |
| 1 Dissecting Tray | 2 Forceps (tweezers) |
| Gloves, Goggles, Apron | 1 Probe and 4 Pins |

External Structures:

1. The first thing you will do is identify the sex of your frog. Look at the digits, or fingers, on its forelegs. A male frog usually has thick pads on the "thumbs", and male frogs are usually smaller than female frogs.

Is your frog male or female? _____

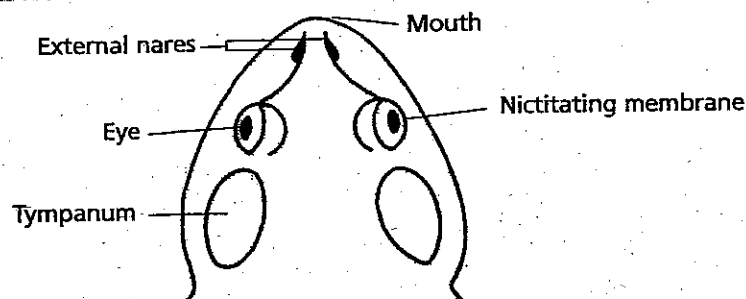


2. On the head of your frog identify the mouth, external nares, tympani, eyes, and nictitating membranes. Write the meaning of the terms below:

Nares _____

Tympanum _____

Nictitating Membrane _____



3. Lay the frog ventral side up (dorsal side down), and cut the hinges of the mouth with the scissors. Identify the vomerine teeth, maxillary teeth, internal nares, pharynx, esophagus, glottis, eustachian tubes, and tongue.

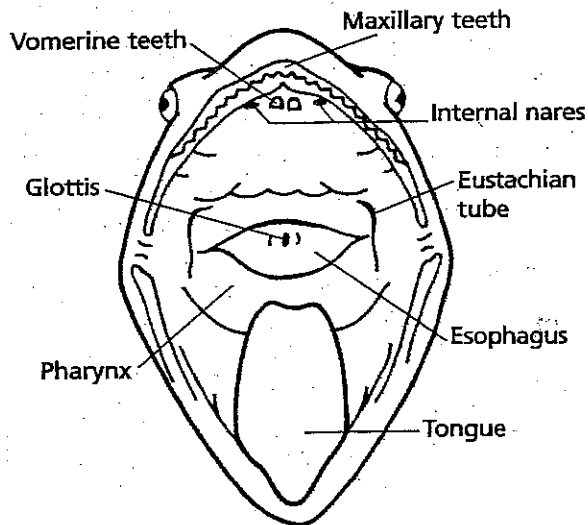
Write the meaning of these terms:

Pharynx _____

Esophagus _____

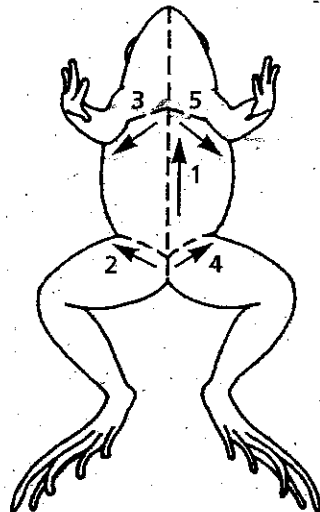
Glottis _____

Eustachian Tubes _____



Internal Structures:

4. With the frog still ventral side up, cut along the mid-ventral line from the anus to the chin (see diagram). Cut the skin and the muscle below it. **Remember to keep the scissors pointing up, so you don't damage the internal organs!**
5. Now cut towards each of the legs so that the abdominal skin and muscle can be folded back. Remove the abdominal skin and muscle using your scissors.



Incisions for Dissection

6. If your frog is female, your abdominal cavity may be filled with dark-colored eggs. These can be removed so that you can see the organs underneath.

Does your frog have eggs (if female)? _____

7. You may also see many self-contained yellow capsules throughout the internal cavity. These are called fat bodies.

Does your frog have any fat bodies? _____

In contrast to a frog, where is fat on humans found? _____

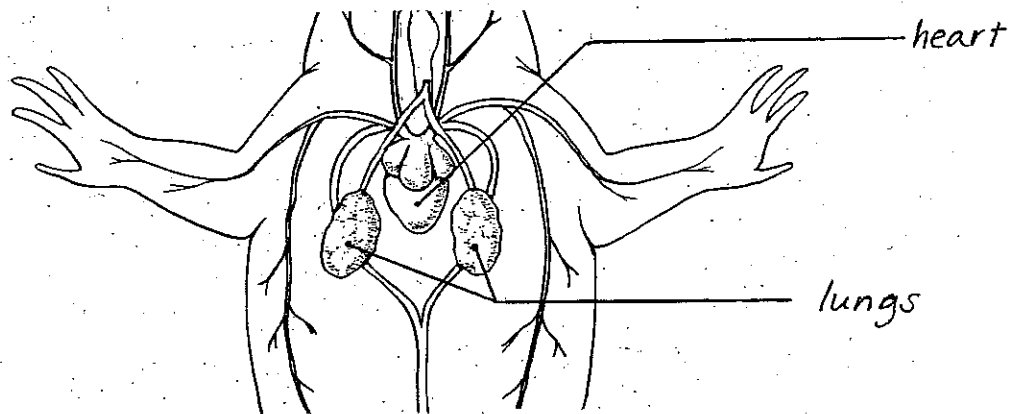
Respiratory & Circulatory Systems:

8. In the upper cavity (the chest), locate the two lungs and the heart.

Describe the placement of the lungs compared to the heart: _____

What body system are the lungs a part of? _____

What body system is the heart a part of? _____



Digestive System:

9. Using the diagram, locate the esophagus, stomach, small intestine, large intestine, cloaca (anus), liver, gall bladder, and pancreas.

What is the purpose of each of these organs?

Esophagus _____

Stomach _____

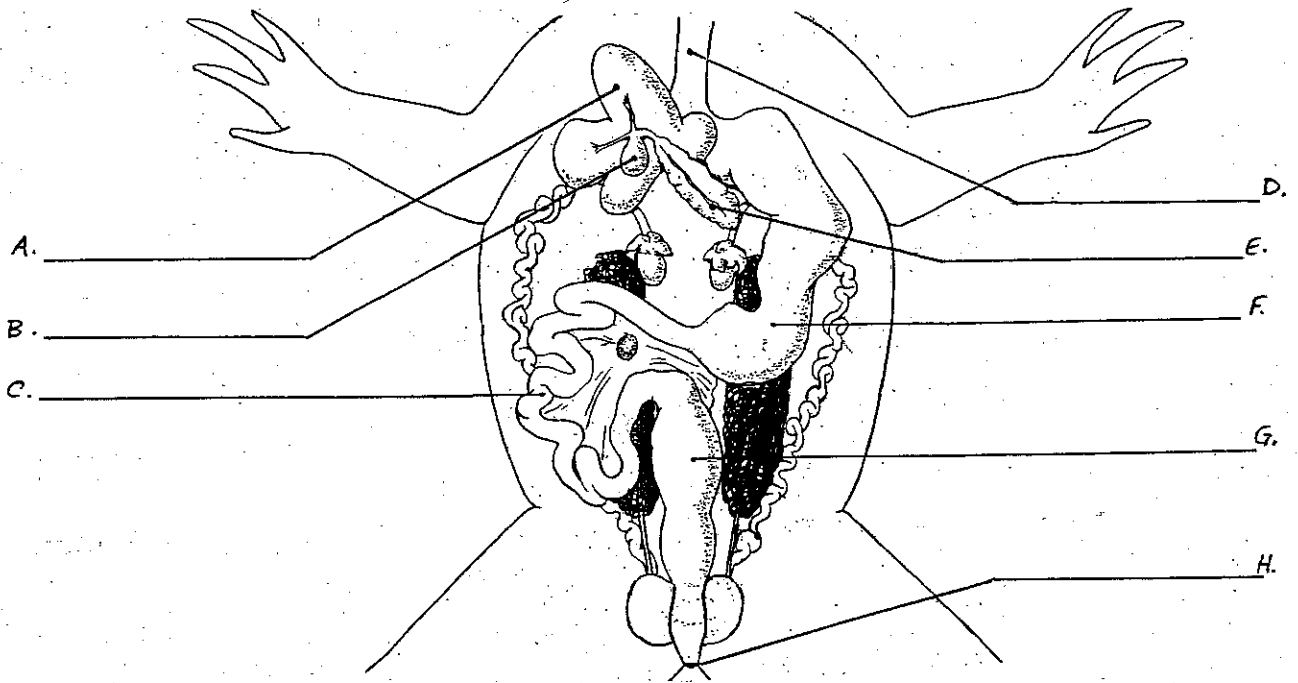
Small Intestine _____

Large Intestine _____

Liver _____

Gall Bladder _____

Pancreas _____



Urinary System:

10. Remove the intestines and the liver. Identify kidneys, ureters, and urinary bladder.

What is the purpose of these organs:

Kidney _____

Urinary Bladder _____

Reproductive System:

11. In the male, identify the testes. In the female, identify the ovaries, and oviduct.

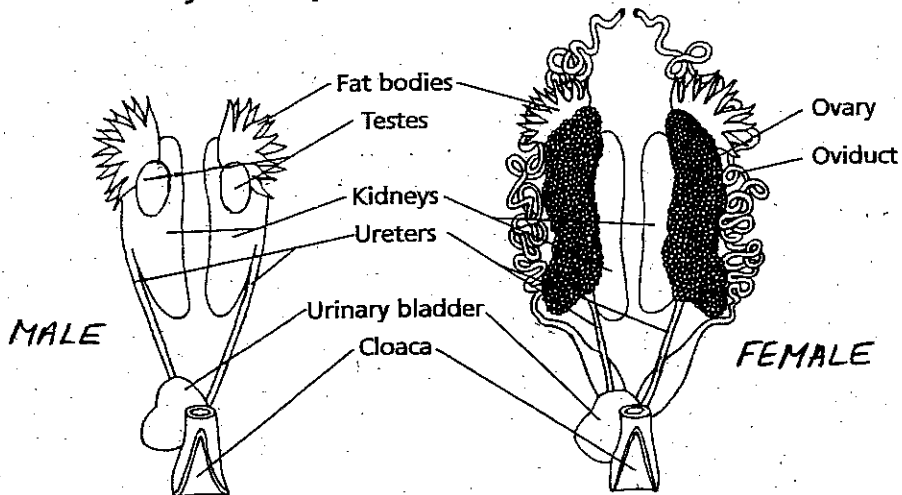
What is the purpose of these organs?

Testes _____

Ovaries _____

Oviduct _____

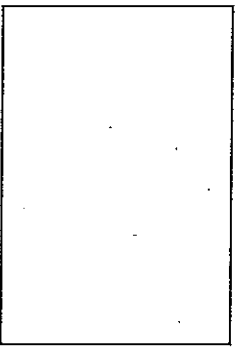
Urinary and Reproductive Systems of the Frog



FROG DISSECTION

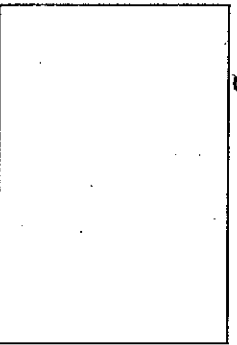
Structure & Function of the Internal Organs

Heart:



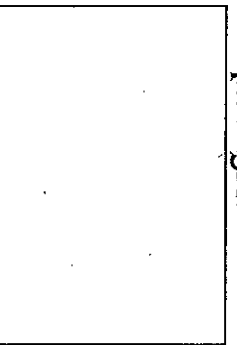
Body System: _____
Function: _____

Lungs:



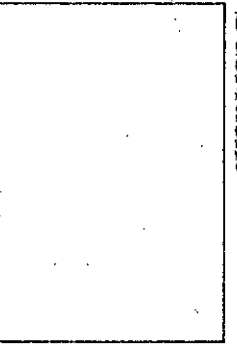
Body System: _____
Function: _____

Diaphragm:



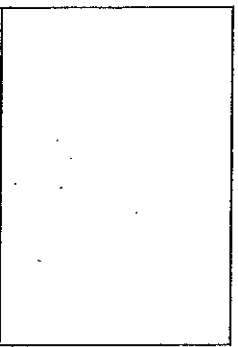
Body System: _____
Function: _____

Stomach:



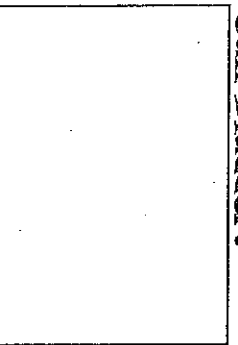
Body System: _____
Function: _____

Liver:



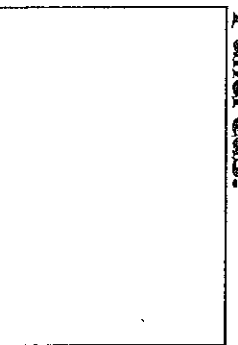
Body System: _____
Function: _____

Gall Bladder:



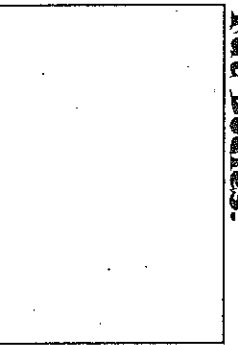
Body System: _____
Function: _____

Pancreas:



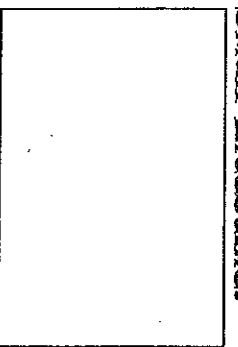
Body System: _____
Function: _____

Fat Bodies:



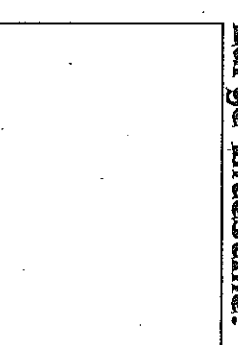
Body System: _____
Function: _____

Small Intestine:



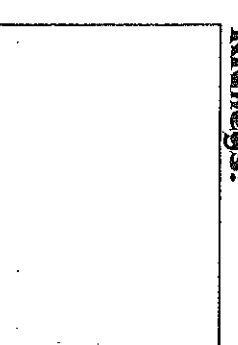
Body System: _____
Function: _____

Large Intestine:



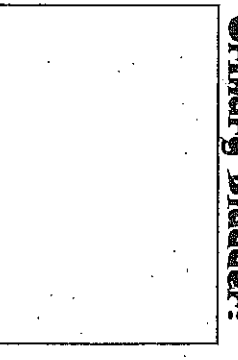
Body System: _____
Function: _____

Kidneys:



Body System: _____
Function: _____

Urinary Bladder:



Body System: _____
Function: _____