

DAY 17

TOPIC: THE HUMAN BODY

Organisation of the Human Body: Organ Systems

Aim:

- Name the different organ systems in the human body.
- Identify the principle needs that each system serves.
- Name the main organs involved in each system.
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Activity 1:

- Study pages 7-9 below.
- Do the exercise questions on page 10.

SECTION 1: ORGANISATION OF THE HUMAN BODY

We are now going to look in detail at the human body, what is in it and how it works.

1. ORGAN SYSTEMS

The human body is a living machine made up of organ systems. These organ systems link up and work together to keep us alive. An example of one of our organ systems is the respiratory system. It is made up of the nose, mouth, trachea (windpipe) and lungs. The diagrams on the next 2 pages (Figure 6) show the various organ systems and the organs of the body which are part of them.

The organ systems are:

The circulatory system is made up of the heart and blood vessels and is the transport system of the body.

The digestive system is made up of the oesophagus, stomach, and intestine and provides nutrients to the body.

The nervous system is made up of the brain, spinal cord, nerves and sense organs and lets us know what is going on in the environment and keeps control of the bodies activities.

The skeletal system is made up of bone and cartilage, and protects our body and helps us move.

The reproductive system is made up of the penis and testicles in males and the uterus (womb), ovaries and vagina in females and provides a way to reproduce ourselves.

The endocrine system is made up of various glands through out the body which produce chemical messengers called hormones. The hormones help control body functions.

The excretory system is made up of the bladder and kidneys and removes cellular wastes from the blood.

The muscular system is made up of muscles and tendons, and allows us to move.

The respiratory system is made up of the nose, mouth, trachea, and lungs and takes in oxygen and gives off carbon dioxide and water.

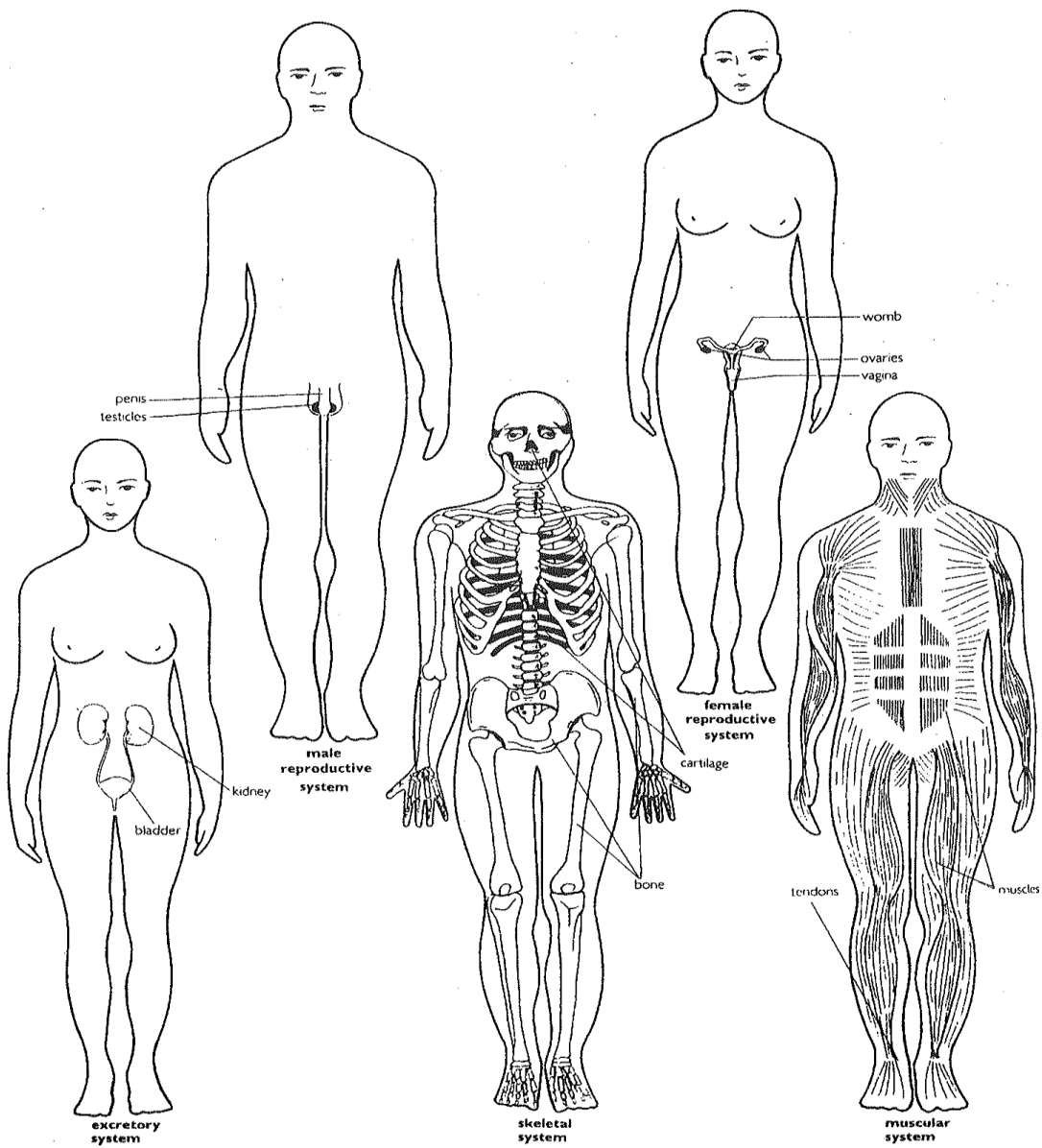
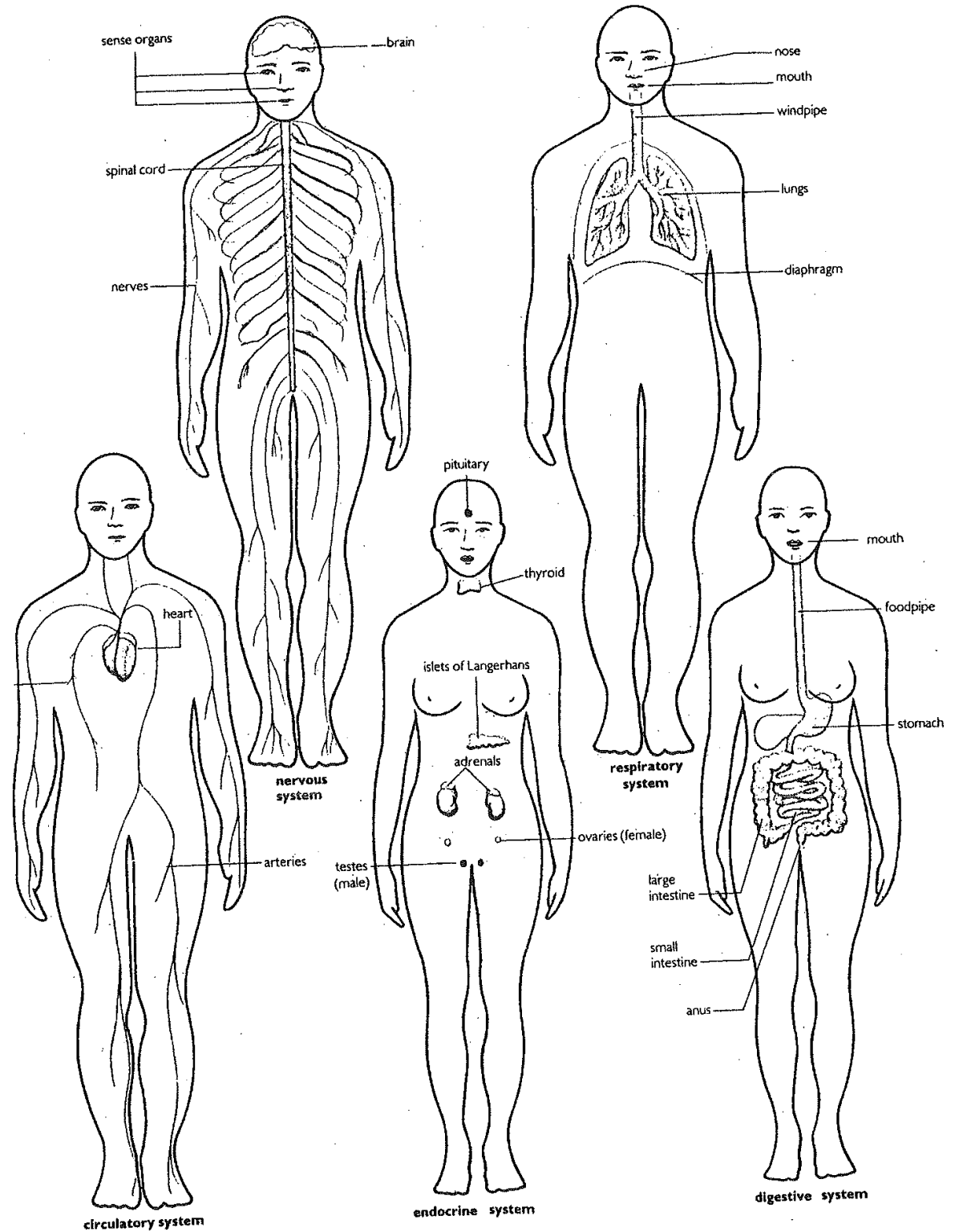


Figure 6. Organ systems of the Human Body



Exercise : Organ Systems

All these needs of your body you have thought of are met by the different organ systems.

Now complete the following table, using the suggested answers below, to show the principal needs which each system serves. You may need to use the diagrams of each system given in the figure 7 and to discuss your ideas with your group.

System	Needs Met
skeletal	support, movement, protection
digestive	
circulatory	removal of wastes
endocrine	
nervous	
respiratory	
excretory	
reproductive	

Suggested answers:

- ✓ 1. support, movement, protection.
2. production of next generation.
3. hormone control.
4. movement, internal transport.
- ✓ 5. removal of wastes.
6. food for respiration via digestion.
7. oxygen for respiration, excretion of waste carbon dioxide.
8. internal transport of food, oxygen and hormones.
9. information communication from outside and or inside.