

STATING FUNCTION

The function of a tissue or organ can be stated in the following ways:

- (i) The function of X is *to* + verb [e.g.: The function of the heart is to pump blood.]
- (ii) X is concerned with *-ing form of verb* [The heart is concerned with pumping blood.]
- (iii) X acts as *noun* [The heart acts as a pumping-machine.]

5. Change the following sentences so that the function is clearly stated:

1. The iris adapts the size of the pupil to the amount of light.
2. The bones are a framework for the body.
3. The pleura facilitates the movements of the lungs.
4. The endocrine glands maintain physiological equilibrium.
5. The fat in adipose tissue is an emergency food reserve.
6. Tissue fluid is a 'go-between' between the blood and the cells.
7. The pancreas secretes pancreatic juice and insulin.
8. Bone supports the body.
9. Somatic muscles adapt the individual to the external environment.
10. The muscles of the neck move and support the head.
11. Connective tissue is a supporting matrix for more highly organized structures.
12. Lipase converts fats into fatty acids and glycerol.
13. The muscular walls of the blood vessels regulate the local distribution of blood.

6. Complete the following sentences, choosing from the verbs bring about, provide, facilitate to fill each blank:

1. The stimulation of the nerve endings ... a reflex emptying of the gall bladder.
2. Saliva ... swallowing.
3. The intercostal muscles ... respiratory movements.
4. The muscles of the hips and thighs ... strength and stability.
5. Loose areolar tissue ... movement between adjacent structures.
6. Progesterone ... a change in the wall of the uterus.
7. The oxidization of food ... heat.
8. A hormone ... the constriction of the gall bladder.
9. Connective tissue ... a supporting matrix for more highly organized structures.
10. The pleura ... two frictionless surfaces which ... the movement of the lungs.
11. The secretion of adrenaline ... a constriction of the arterioles.
12. Dilation of the blood vessels ... blood flow.
13. Hydrochloric acid ... the medium necessary for the action of pepsin.