



Unit 5 • Body Structure and Life Process: nervous system, glands and plant hormones

Name _____ Class _____ Roll no. _____ Date _____ Marks _____ / 33

1 Key words

[4]

Fill in the blanks with words from the box. Two words in the box are not needed. Each blank carries 0.5 mark.

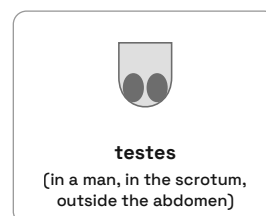
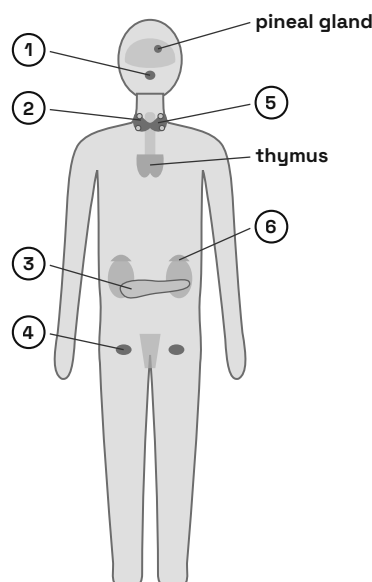
autonomic auxin cerebrospinal fluid cytokinin endocrine gibberellin iodine
meninges parathormone reflex

The brain is wrapped in three layers of membrane called the _____, and the space between two of them is filled with _____, which cushions the brain. A quick, automatic response to a stimulus, made without thinking, is a _____ action. The involuntary actions of the heart, lungs and stomach are controlled by the _____ nervous system. A ductless gland that releases its hormone straight into the blood is called an _____ gland. The thyroid gland needs _____ to make thyroxine. In plants, _____, made in the tip of the shoot, makes cells grow longer, and _____ makes stems grow long and grapes bigger.

2 Label the diagram

[3]

The diagram shows the endocrine glands of the human body. Write the names of the glands numbered 1 to 6. Each carries 0.5 mark.



1. _____

2. _____

3. _____

4. _____

5. _____

6. _____



3 Multiple choice

[5]

Choose the correct option for each of the following questions.

- i. Which is the right order of the meninges, from outside to inside? [1]
a. pia mater, arachnoid, dura mater b. arachnoid, pia mater, dura mater
c. arachnoid, dura mater, pia mater d. dura mater, arachnoid, pia mater
- ii. Which hormone controls the sugar level in the blood? [1]
a. thyroxine b. insulin
c. parathormone d. estrogen
- iii. Which nerve carries messages from the parts of the body to the brain? [1]
a. motor nerve b. sensory nerve
c. ganglion d. both motor and sensory nerves
- iv. A man has had too much alcohol. He can still talk and think, but he sways and can't walk along a straight line. Which part of his brain is affected most? [1]
a. cerebrum b. cerebellum
c. medulla oblongata d. spinal cord
- v. A boy's mother forgot to buy iodized salt for years. Which gland is most likely to be affected? [1]
a. thyroid b. parathyroid
c. pancreas d. adrenal

4 Very short answers

[3]

Write very short answers to the following questions.

- a. Which part of the nervous system is the center of reflex actions? [1]

- b. Name the plant hormone, a gas, that ripens fruit. [1]

- c. Which part of the autonomic nervous system makes the heart race when you are frightened? [1]

5 Short answers

[8]

Write short answers to the following questions.

- a. Give a reason: the body loses its balance when the cerebellum is injured. [2]



b. Give a reason: the pancreas is called a mixed gland. [2]

c. Give a reason: insulin and glucagon work against each other. [2]

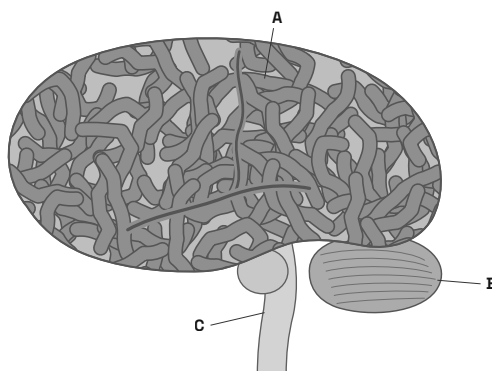
d. Write any two differences between exocrine and endocrine glands. [2]

6 Long answers [8]

Write long answers to the following questions.

a. Describe the reflex action that happens when we touch a hot object. [4]

b. Study the diagram and answer the questions. [4]



- Name the parts marked A, B and C.
- Write the functions of A, B and C.
- What happens if part C is injured?



7 Think

[2]

Think, then answer.

Before an important exam or a race, many people have a dry mouth, a racing heart, sweaty palms and a funny feeling in the stomach. Which system is at work, and why does it do this?

8 Activity: How fast can you catch a ruler?

(not marked)

A friend holds a ruler hanging down, its 0 cm mark between your open thumb and finger. Without warning, your friend lets go, and you catch it as fast as you can. Do it five times.

Try	Where you caught it (cm)
1	
2	
3	
4	
5	

Is catching the ruler a reflex action? Why or why not?

