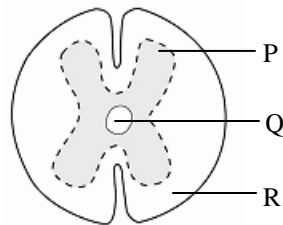


## CHAPTER 2: BODY COORDINATION

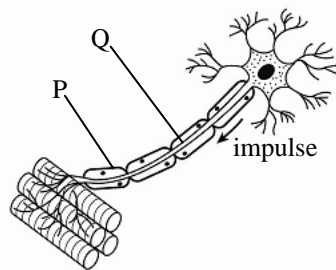
### PAPER 1: Objective Questions

- Which system in our body enables us to detect what is happening in the environment?
  - The endocrine system
  - The nervous system
  - The muscular system
  - The circulatory system
- The diagram below shows a cross-section of the human spinal cord.



Which statement about it is correct?

- The spinal cord controls voluntary actions
  - P consists of nerve fibres or white matter
  - Q is a canal containing a spinal fluid
  - R is grey matter made up of nerve cells
- The diagram below shows a motor neurone.



What are the parts labelled P and Q?

	P	Q
A	Myelin sheath	Axon
B	Axon	Dendron
C	Dendron	Cell body
D	Cell body	Myelin sheath

- 4 What is the function of a neurone?
- A To connect the ends of two nerves
  - B To detect foreign microorganisms in the body
  - C To secrete hormones from ductless glands
  - D To receive and transmit stimuli as nervous impulses
- 5 Which of the following is the function of proprioceptors?
- A Enable us to detect a change in the temperature of the air
  - B Enable us to determine the source of a sound
  - C Enable us to button a shirt without looking at the buttons
  - D Enable us to cough after inhaling a toxic gas

V	: Effector
W	: Receptor
X	: Medulla oblongata
Y	: Spinal cord
Z	: Cerebrum

- 6 Which is the correct nervous path for an involuntary action?
- A  $W \rightarrow Y \rightarrow Z \rightarrow V$
  - B  $V \rightarrow Y \rightarrow Z \rightarrow W$
  - C  $W \rightarrow Y \rightarrow X \rightarrow V$
  - D  $V \rightarrow Y \rightarrow X \rightarrow W$
- 7 The adrenal glands...
- I secrete hormones to increase the blood glucose level in an emergency.
  - II secrete hormones which control heartbeat.
  - III secrete hormones which regulate mental development.
- A I and II only
  - B I and III only
  - C II and III only
  - D I, II and III
- 8 Which of the following produces hormones as well as digestive enzymes?
- A Thyroid gland
  - B Pituitary gland
  - C Testes
  - D Pancreas
- 9 The endocrine system produces hormones which...
- A are sent along the nerves.
  - B cause very slow responses from the body.
  - C produce very short term effects on the body.
  - D are mineral substances formed from mineral salts in the diet.

- 10** Drugs are chemical substances which can affect a person's...
- I mind.
  - II body functions.
  - III behavior and emotion.
- A** I and II only  
**B** I and III only  
**C** II and III only  
**D** I, II and III
- 11** Excessive drinking of alcohol can cause the following consequences **except**...
- A** gastroenteritis.
  - B** addiction.
  - C** diabetes mellitus.
  - D** cirrhosis of the liver.
- 12** A person with a healthy mind...
- A** thinks rationally.
  - B** is often aggressive.
  - C** has no desire to succeed.
  - D** has negative attitudes.