## Physiology of Stress – Questions by Topic (MCQ)

#### Q1.

A steroid hormone that regulates energy use and the immune system, secreted from the adrenal glands when stress is experienced.

Which of the following substances is described above? Write **A**, **B**, **C**, or **D** in your answer book.

- A Adrenaline
- **B** Adrenocorticotropin
- **C** Corticotropin-releasing hormone
- **D** Cortisol

(Total 1 mark)

#### Q2.

Below are four evaluative statements about general adaptation syndrome (GAS). Which statement is **TRUE**? Write **A**, **B**, **C**, or **D** in your answer book.

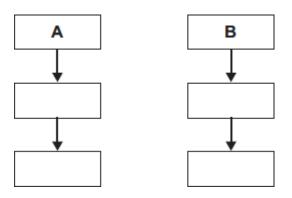
- A It correctly explains how everyone responds in different ways to different sources of stress.
- **B** It fails to explain what happens when a person is repeatedly exposed to stress.
- **C** It is better at explaining female responses to stress than male responses to stress.
- **D** It wrongly assumes that the body responds in the same way to different sources of stress.

(Total 1 mark)

### Q3.

Complete the diagram below so that it shows stages of the sympathomedullary pathway and the pituitary-adrenal system. For **each** stage, write the appropriate letter in the correct box.

# **HYPOTHALAMUS**



- A adrenal medulla
- **B** adrenal cortex
- C decreases heart rate and blood pressure
- **D** liver stores energy
- **E** cortisol / corticosteroids released
- **F** adrenaline and noradrenaline released
- **G** pituitary gland
- **H** gets body ready for 'fight or flight'
- I immune system suppressed

(Total 4 marks)

<b>Q4.</b> The following are features of the pituitary-adrenal system and the sympathomedullary pathway.								у
	Tick	the boxes nex	t to <b>three</b> fea	atures o	of the sympathomed	ullary pathwa	y.	
	No	radrenaline						
	Pituitary gland							
	Adrenal cortex							
	Ad	Adrenal medulla						
	Sy	Sympathetic nervous system						
(Tick three boxes only)							tal 3 marks)	
Q5.  The body's response to stress includes the pituitary-adrenal system and the sympathomedullary pathway. The following are all features of this stress response.								
A Adrenal medulla								
	B Noradrenaline							
	C Adrenal cortex							
	<b>D</b> Adrenaline							
	E Cortisol / Corticosteroids							
	F Adrenocorticotrophic hormone (ACTH)							
	Select <b>two</b> from the above list that are linked to the pituitary-adrenal system and <b>two</b> from the list that are linked to the sympathomedullary pathway.							
	Put <b>one</b> letter in each box.							
	Pituitary-adrenal system							
	Sympathon			nedulla	ry pathway			
(Total 4 marks)								

AQA Psychology A-level