

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Human Endocrine System
Answers

Name:

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Total Marks: /22

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Q1: Explain what the endocrine system is.

A= Glands that produce hormones (1) that control metabolism in the body (1)

(2 marks)

Q2: What are hormones?

A= Chemicals produced in glands (1) to have an effect within the body (1).

(2 marks)

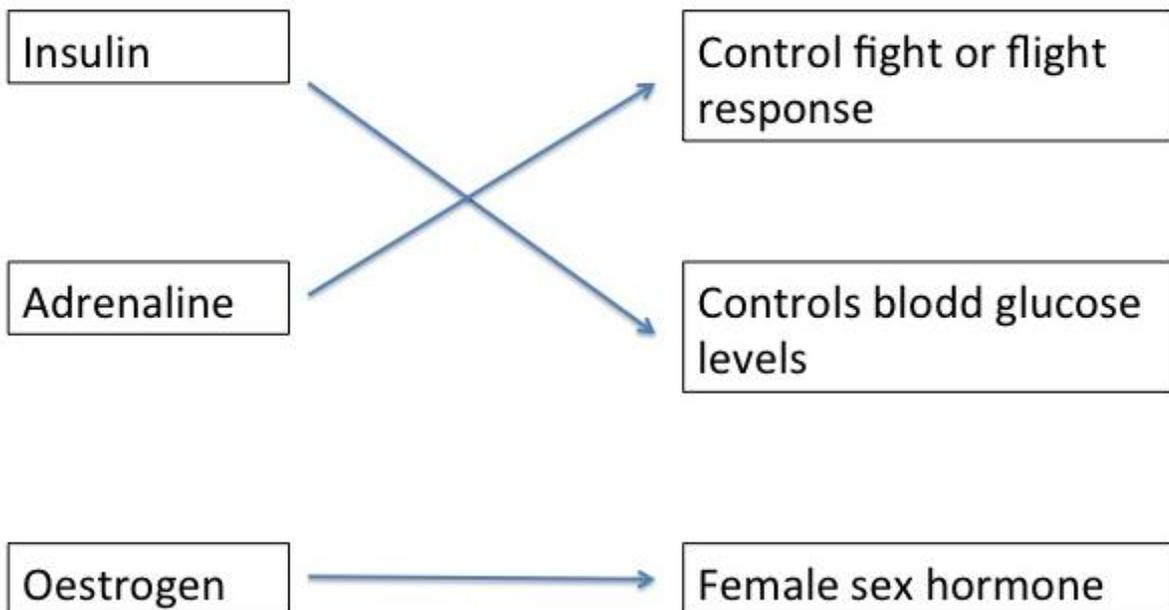
Q3: Explain how hormones are transported around the body.

A= 1 mark for each of the following:

- Secreted into blood stream
- Carried around the body in the blood stream

(2 marks)

Q4: Connect the hormones below to their correct function



A= 1 mark for each correct line

(3 marks)

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Q5: Discuss the differences in response time between the nervous system and endocrine system.

A= 1 mark for each of the following:

- Nervous System
 - Fast acting
 - Responds to electrical impulse
- Endocrine
 - Often slow acting
 - Can have a rapid response – e.g. insulin/ Adrenaline

(4 marks)

Q6: Explain how the pituitary gland functions as part of the endocrine system

A= Accept any 3 of the following:

- In the brain
- Master gland
- Coordinates other endocrine glands
- Produces a variety of hormones

(3 marks)

Q7: Give 3 of the main endocrine glands.

A= Accept any 3 of the following:

- Thyroid
- Pituitary
- Pancreas
- Adrenal
- Ovary
- Testis

(3 marks)

Q8: Discuss where and why TSH is produced.

A= Stimulates thyroid gland (1)

Accept one of the following:

- Makes Thyroxide
- Controls rate of metabolism

(2 marks)

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Q9: Explain the effects on an adult male if the pituitary gland does not work efficiently.

A= Accept 1 of the following:

- Low sex hormone/ Testosterone
- Can't produce sperm

(1 mark)