

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Negative Feedback Answers

Name:

M M E

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Total Marks: /20

Q1: How are most hormones within the body controlled?

A= Negative Feedback

(1 mark)

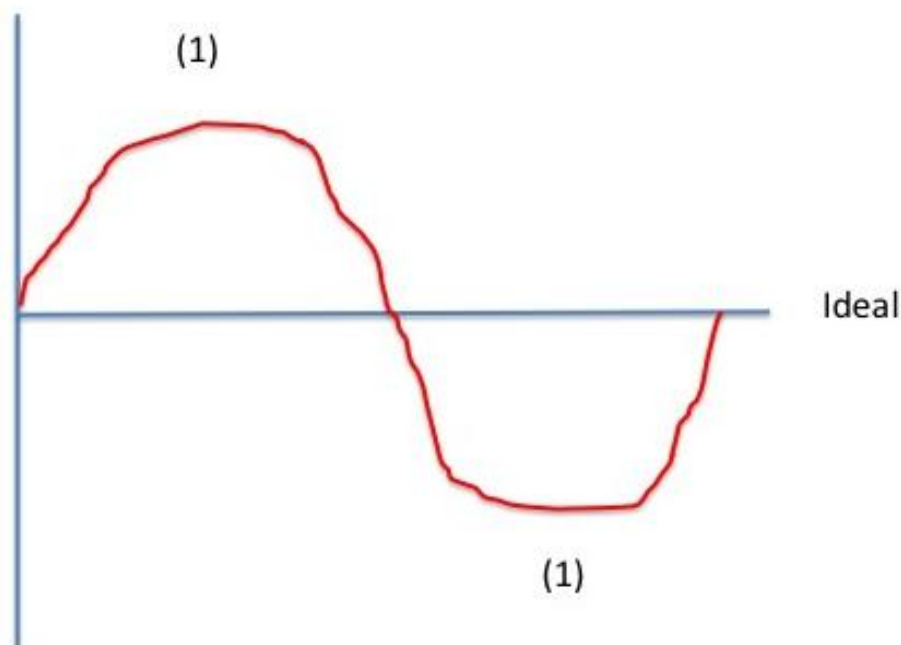
Q2: Explain how negative feedback system works.

A= 1 mark for continuous prose and 1 mark for each of the following:

- Increase internal environment
- Changes made to lower
- Decrease internal factors/ environment
- Change made to increase
- Restore balance

(6 marks)

Q3: Draw a representation of a negative feedback system on the graph below.



(2 marks)

Q4: Give an example of hormones which use negative feedback.

A= Accept one of the following:

- Blood glucose
- Sex hormone

(1 mark)

Q5: What hormone increases if low Thyroxine levels occur?

A= TSH

(1 mark)

Q6: Why is iodine important in the diet?

A= Thyroid gland uses to produce Thyroxine

(1 mark)

Q7: What does Thyroxine control in the body?

A= Accept one of the following:

- Metabolic rate
- Speed substances used up in the body

(1 mark)

Q8: Where is adrenaline produced?

A= Adrenal gland

(1 mark)

Q9: Explain why the fight or flight response from adrenaline is not a true negative feedback system.

A= Accept any 2 of the following:

- No counteracting hormone
- Lowers level by adrenal gland – stopping adrenaline production
- Filtered from blood to restore resting levels

(2 marks)

Q10: Discuss the effects caused by the production of adrenaline.

A= Accept any 4 of the following:

- Increase heart rate
- Increase breathing rate
- Rapid glucose conversion
- Pupils dilate
- Increase mental awareness
- Blood diverted from digestive system/ metabolism slows

(4 marks)