Homeostasis and response

Biology Paper 2 | 30 quick questions

GCSE science knowledge recall

Answer online, marked instantly

Name: _____ **Date:** _____ **Score:** _____ **/ 30**

1 What is the name for keeping conditions inside the body, such as temperature and blood glucose, at the best level for cells to work?

2 In a control system, what name is given to the cells that detect a change (a stimulus)?

3 Muscles and glands that carry out a response are given what general name?

4 Which two organs make up the central nervous system (CNS)?

5 Which type of neurone carries impulses from a receptor to the central nervous system?

6 In a reflex arc, which neurone inside the spinal cord passes the impulse from the sensory neurone to the motor neurone?

7 What is the name of the tiny gap where two neurones meet?

8 Explain why reflex actions are useful to the body.

9 Which part of the brain is responsible for consciousness, memory, language and intelligence?

Separate science only

10 Which part of the brain coordinates muscle movement and balance?

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11 What is the name of the light-sensitive layer at the back of the eye?

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12 What is the scientific name for short-sightedness?

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13 Which part of the brain contains the thermoregulatory centre that monitors blood temperature?

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14 Which gland in the brain is often called the 'master gland' because its hormones control other glands?

15 Hormones travel from glands to their target organs in which liquid?

16 Which organ monitors the blood glucose concentration and releases insulin?

17 Insulin makes liver and muscle cells turn glucose into which storage carbohydrate?

18 Which hormone does the pancreas release when the blood glucose concentration is too low?

Higher

19 In which type of diabetes does the pancreas fail to produce enough insulin? Give the number.

20 Which type of diabetes, where body cells stop responding properly to insulin, is strongly linked to obesity? Give the number.

21 Excess amino acids are broken down in the liver. Which waste product is made and then removed by the kidneys?

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22 Which hormone, released by the pituitary gland, makes the kidney tubules reabsorb more water? Give the abbreviation.

Higher, Separate science only

23 What is the main female reproductive hormone made by the ovaries?

24 Which hormone causes an egg to mature in the ovary? Give the abbreviation.

25 Which hormone stimulates the release of an egg (ovulation)? Give the abbreviation.

26 Name one barrier method of contraception.

27 Which hormone, released by the adrenal glands in times of fear or stress, increases heart rate?

Higher

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28 Explain how negative feedback brings a high thyroxine level back to normal.

Higher

29 Which plant hormone causes shoots to grow towards the light?

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30 Which gaseous plant hormone is used to ripen fruit during storage and transport?

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