



Homeostasis

1 What is homeostasis?

- Homeostasis is the regulation of conditions inside the body to maintain a stable internal environment
- in response to changes in both internal and external conditions

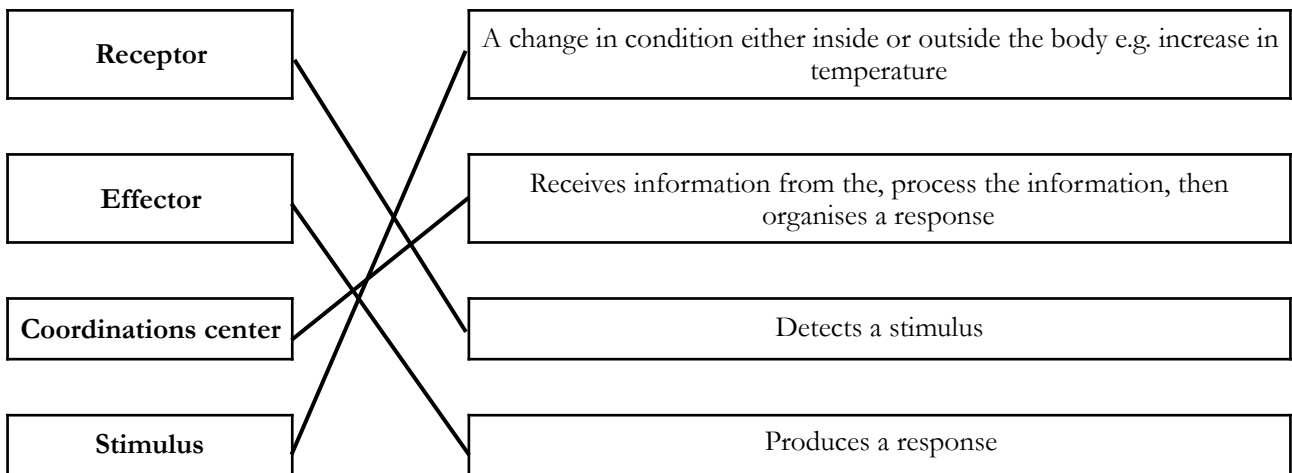
[2 marks]

2 Why is homeostasis important in the human body?

- It allows our cells (and enzymes) to function properly by providing optimum conditions, and providing a good supply of nutrients

[1 marks]

3 Match the terms to their descriptions



[4 marks]

4 What is meant by 'negative feedback'?

- A change in conditions results in a change in the opposite direction, so any change is brought back to normal

[1 marks]

5 Name two types of effectors and describe how they work

- 1) Muscles - contract to move parts of the body
- 2) Glands - release hormones that travel around the body to bring about a range of effects

[4 marks]

6 Name three conditions that are controlled by homeostasis

- Temperature, pH, glucose levels, CO₂ level in blood etc

[3 marks]

[Total 15 marks]