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HOMOESTASIS

Total Marks: 25

Duration: 0 hours, 20 minutes

Instructions to test takers

- 1. Answer all the questions in this paper
- All the answers for the questions in this paper will be found on Study Star (<u>www.studystar.me</u>)
- 3. Using the answers on the website, mark yourself truthfully and carefully.

Turn this page, time yourself and begin the test

Section A [10 marks]

1.	Which of the following is a correct importance of homeostasis?
	a. Control of heat levels in the body
	b. Control of thinking capacity in the brain
_	c. Control of sugar levels in the blood
2.	Which hormone is produced when there is too much glucose in the
	body?
	a. Adrenaline
	b. Insulin
	c. Glucagon
3.	When it is too hot, what happens to the erector muscle?
	a. Contracts
	b. Relaxes
	c. Flattens
4.	When it is too cold the liver
	a. Increases the rate of metabolism of macromolecules
	b. Decreases the rate of metabolism of macromolecules
_	c. Produces bile
ე.	Which of the following is not an organ of homeostasis?
	a. Brain
	b. Heart
^	c. Lungs
O.	When there is too much water in the blood, ADH
	a. Is produced
	b. Is not produced
7	c. Is transported to the liver
1.	ADH makes the blood capillaries a. More permeable to water
	·
	b. Less permeable to waterc. contract
Q	When is glucagon released?
O.	a. When there is too much glucose in the blood
	b. When there is too little glucose in the blood
	c. When there is too much water in the blood
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- 9. The sweat glands become more active when _____
 - a. It is too cold
 - b. It is normal
 - c. It is too hot
- 10. What happens to the erector muscle and sweat glands on a hot day?

	Erector muscle	Sweat glands
a.	Contracts	Becomes more active
b.	Relaxes	Becomes less active
C.	Relaxes	Becomes more active

Section B [5 marks]

- 11. When there is too much glucose in the body, what detects and signals the pancreas?
- 12. The process of controlling water levels in the blood is called
- 13. The process of controlling temperature levels in the blood is called
- 14. What is the normal body temperature of a human being?
- 15. What hormone is secreted when there is too little glucose in the blood?

Section C [10 marks]

16. State three organs of homeostasis.	[3]
17. State three changes that occur when it is too hot.	[3]
18. State two importance(s) of homeostasis	[2]
19. Define homeostasis	[1]
20. ADH is released when?	[1]



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