

NAME:

CLASS:

1) Write the number 1 to 6 in each box to show the correct order on the regulation of body temperature:

- A. Cold receptors under the skin detect coldness and trigger impulses to the brain.
- B. Body temperature falls during cold days.
- C. Hairs stand erect so thicker layer of air is trapped. Thus, less heat released to the surrounding.
- D. Nerve impulses from the brain stimulate skin to decrease heat loss.
- E. Sweat glands are less active so less sweat produced. Heat can be retained to bring back normal body temperature.
- F. Blood vessel constrict so less blood flows near the skin's surface. Less heat is radiated to the environment.

2) Write the number 1 to 4 in each box to show the correct order on the regulation of water content:

- A. Kidneys excrete large amount of diluted urine.
- B. When we drink too much water, the water content in our body increase.
- C. The content of water in the body returns to normal.
- D. Brain cells detect the changes and signals the endocrine system to produce more ADH hormone.

Fill in the blanks with the correct word

3) How do snakes maintain homeostasis in hot surrounding?

- Snakes tend to _____ more and move _____ in hot weather. The heat of the sun speeds up their _____, giving them energy and helping them to _____ food. When it gets too hot, snakes _____ in shady areas or burrow themselves _____ to avoid _____.

4) Explain how plants use stoma to help maintain homeostasis?

- Plants lost water through _____. Losing too much water could cause plants to _____ and die. However, plants have the ability to minimize their _____ loss by controlling how wide their stoma open. If stoma is open when the surrounding air is humid, less water will _____ from the plants leaves compared to if it is open when surrounding temperature is higher. When a plant is already dehydrated, it may _____ its stoma to _____ further water loss.

5) A boy is doing a physical activity early in the morning.



a) Why does the boy's face turn red after doing the physical exercise?

- When the body temperature rises, the blood vessels in the skin will _____ and _____ will flow through them in an effort to move the _____ to the surface of the _____ to be removed.

b) The boy is asked by his mother to drink a lot of water after exercising. In your opinion, why does his mother say this?

- A lot of water is lost from the body through _____. By drinking water, the water balanced in the body can be _____. This will prevent the boy from _____.

close	sweating	water	metabolism	transpiration
faster	overheating	eat	skin	dehydration
wilt	prevent	blood	evaporate	hide
heat	digest	underground	maintained	dilate