

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