GRADE 8 REVISION (3)

CHAPTER # 14

HOMEOSTASIS

(0610/21 October/November 2016)

When the blood glucose concentration is low, which hormone is released and which organ releases it?

	hormone	organ
A	glucagon	liver
B	glucagon	pancreas
С	insulin	liver
D	insulin	pancreas



(0610/21 October/November 2017)

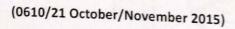
2) What is the most important function of sweating?

A to remove excess heat from the body

B to remove excess salts from the body

C to remove excess urea from the body

D to remove excess water from the body



3 Why do mammals sweat?

Ato cool the body

B to lose water vapour through the skin surface

C to release energy through the oxidation of glucose

D to remove glucose from the blood

(0610/21 October/November 2014)

4.

The table shows a student's water losses on a cool day.

reth fresh	water loss /cm³
in urine	1500
in faeces	100
in expired air	400
in sweat	800
total	2800

On a hot day the student's water intake was the same as on the cool day.

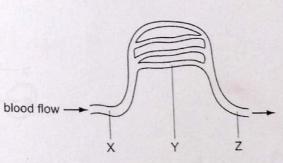
On the hot day, which water losses would increase and which would decrease?

	increase	decrease
A	in sweat	in expired air
(B)	in sweat	in urine
С	in urine	in faeces
D	in urine	in sweat

(0610/21 October/November 2013)

5.

The diagram shows some blood vessels near the surface of the skin.



If vasoconstriction occurs at X, what happens to the blood flow at Y and Z?

~	Υ	Z
A	decreases	decreases
В	decreases	stays constant
C	increases	increases
D	increases	stays constant

How does sweating cool the body?

- A Sweating causes vasodilation.
- B Sweating decreases the water content of the blood.
- C Urea and salt are lost from the body in sweat.



Water in sweat evaporates from the skin.

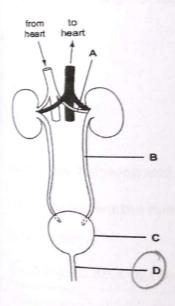
During a long-distance race, the body temperature of an athlete begins to rise.

Which changes occur to help return the body temperature to normal? May/June 2005

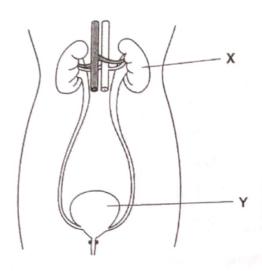
	sweating	blood vessels in the skin
A .	decreases	constrict
В	decreases	dilate
C	increases	constrict
0	increases	dilate

5. The diagram shows structures associated with the human urinary system.

Which structure is the urethra? (May/June 2004)



6. The diagram shows some of the structures found in the human abdomen.



What type of structures are X and Y?

	Х	Y
(A)	organ	organ
В	organ	organ system
С	organ system	tissue
D	tissue	organ system

7. What is an example of homeostasis? May/June 2007

A breathing in oxygen

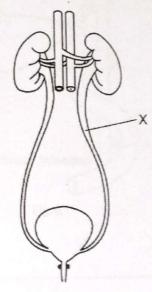
B regulating blood glucose

C removing undigested food through the anus

D urinating to empty the bladder

17 May/June 2012.

The diagram shows the human urinary system.



Which substance is not found in the liquid at X in a healthy person?

- A glucose
- B salt
- C toxins
- D urea

18. Read the following sentence. May/June 2012.

In order to prevent the human body from losing heat, the arterioles supplying the skin

become narrow.

Which process does this sentence describe?

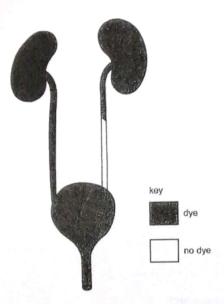
A constriction

B shivering

C sweating

D vasodilation

21. A patient has dye injected into the blood supply to his kidneys. The dye appears in his excretory system as shown.



Which part is blocked?

A one kidney

B one ureter

C the bladder

D the urethra

22. October/November 2004

How do sweat glands and blood vessels near the skin surface respond when body temperature rises above normal?

	sweat glands	blood vessels near the skin surface
A	decreased activity	constriction
В	decreased activity	dilation
C	increased activity	constriction
D	increased activity	dilation