Maintaining Dynamic Equilibrium I — Practice Test

Nova Scotia Advanced Biology 11 • 25 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A heart pumps about 5000 millilitres of blood per minute. If 70 percent goes to muscles, the muscle flow, in millilitres per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A resting heart rate is 70 beats per minute and an active rate is 130 beats per minute. The increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A student resting heart rate is 68 beats per minute and after exercise it is 142 beats per minute. The increase, in beats per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Cardiac output is about 4500 millilitres per minute. If 80 percent is directed to the gut after a meal, the gut flow, in millilitres per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A breath moves 500 millilitres and breathing rate is 12 per minute. The volume per minute, in millilitres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A heart beats 75 times per minute and each beat moves 70 millilitres. The volume per minute, in millilitres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A hormone travels to its target mainly through the**

A nerves only

B bones

C blood

D skin

Understand It with Pulse | Flag a mistake

8 **A reflex arc allows a response without first involving**

A a receptor

B an effector

C conscious thought

D a nerve

Understand It with Pulse | Flag a mistake

9 **A synapse is a junction where a signal passes between**

- A neurons
- B bones
- C muscles only
- D blood cells

Understand It with Pulse | Flag a mistake

10 **ADH is released when blood water level is**

- A high
- B low
- C constant
- D zero

Understand It with Pulse | Flag a mistake

11 **An antagonistic hormone pair controls blood glucose: insulin and**

A adrenaline only

B glucagon

C thyroxine

D oestrogen

Understand It with Pulse | Flag a mistake

12 **Antidiuretic hormone increases water reabsorption in the**

A liver

B lung

C skin

D kidney

Understand It with Pulse | Flag a mistake

13 **Bile emulsifies fats, which increases the surface area for**

A starch digestion

B protein absorption

C vitamin storage

D lipase action

Understand It with Pulse | Flag a mistake

14 **Blood pressure is highest in the**

A veins

B capillaries

C arteries

D atria

Understand It with Pulse | Flag a mistake

15 **Cardiac output is stroke volume multiplied by**

A heart rate

B blood pressure only

C body mass

D breathing rate

Understand It with Pulse | Flag a mistake

16 **Deoxygenated blood enters the right atrium through the**

A aorta

B vena cava

C pulmonary vein

D coronary artery

Understand It with Pulse | Flag a mistake

17 **Haemoglobin releases oxygen more readily where carbon dioxide is**

A absent

B low

C high

D frozen

Understand It with Pulse | Flag a mistake

18 **In the nephron, filtration happens mainly in the**

A collecting duct

B loop only

C glomerulus

D bladder

Understand It with Pulse | Flag a mistake

19 **A heart pumps about 4800 millilitres of blood per minute. If 75 percent goes to muscles, the muscle flow, in millilitres per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A resting heart rate is 66 beats per minute and an active rate is 144 beats per minute. The increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A student resting heart rate is 72 beats per minute and after exercise it is 150 beats per minute. The increase, in beats per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Cardiac output is about 6000 millilitres per minute. If 60 percent is directed to the gut after a meal, the gut flow, in millilitres per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A heart pumps about 5200 millilitres of blood per minute. If 65 percent goes to muscles, the muscle flow, in millilitres per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A resting heart rate is 74 beats per minute and an active rate is 152 beats per minute. The increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A student resting heart rate is 64 beats per minute and after exercise it is 138 beats per minute. The increase, in beats per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	3500	**10.**	B	**19.**	3600
2.	60	**11.**	B	**20.**	78
3.	74	**12.**	D	**21.**	78
4.	3600	**13.**	D	**22.**	3600
5.	6000	**14.**	C	**23.**	3380
6.	5250	**15.**	A	**24.**	78
7.	C	**16.**	B	**25.**	74
8.	C	**17.**	C		
9.	A	**18.**	C		

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