Maintaining Dynamic Equilibrium II — Practice Test

Nova Scotia Advanced Biology 12 • 10 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 nerve impulse travels 70 metres in 0.5 seconds. The conduction speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A kidney filters 220 litres of fluid in a day and reabsorbs 99 percent of it. The urine volume, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A kidney filters 140 litres of fluid in a day and reabsorbs 98 percent of it. The urine volume, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A hormone sample starts at 128 units. After 3 half lives the amount left, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A hormone sample starts at 256 units. After 4 half lives the amount left, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A tissue sample has a mass of 150 grams. After absorbing water its mass is 180 grams. The percent gain in mass is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A tissue sample has a mass of 80 grams. After absorbing water its mass is 88 grams. The percent gain in mass is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Osmoreceptors that detect blood concentration are found in the**

A hypothalamus

B kidney cortex

C adrenal gland

D liver

Understand It with Pulse | Flag a mistake

9 **Aldosterone acts on the kidney to increase reabsorption of**

A glucose only

B sodium

C urea only

D water only directly

Understand It with Pulse | Flag a mistake

10 **The endocrine gland that releases ADH into the blood is the**

A anterior pituitary

B thyroid

C posterior pituitary

D pancreas

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	140	**5.**	16	**9.**	B
2.	2.2	**6.**	20	**10.**	C
3.	2.8	**7.**	10		
4.	16	**8.**	A		

© 2026 Brett Robbins. All Rights Reserved.