BIO40 · MANITOBA

BIO40
Practice Test

Unit D: Organizing Biodiversity

25 Questions

Original practice test based on the Manitoba curriculum. Work through each question, then check your answers at the end.

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.

© 2026 Brett Robbins. All Rights Reserved.



Question 1

A heart beats 65 times per minute. In 3 minutes it beats

Understand It with Pulse Flag a mistake

Question 2

A population of 20 doubles 4 times. Its final size is

Understand It with Pulse Flag a mistake

Question 3

An object of size 2 units seen at magnification 40 times has image size

Understand It with Pulse Flag a mistake

Question 4

40 grams of fat provide energy at 9 kilocalories per gram. The energy is, in kilocalories

Understand It with Pulse Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.



Question 5

A serving of eggs contains 30 grams of protein at 4 kilocalories per gram. The energy is, in kilocalories

Understand It with Pulse Flag a mistake

Question 6

One cell divides 4 times with no cell death. The number of cells is

Understand It with Pulse Flag a mistake

Question 7

A neutral solution has a pH of

A) 7 B) 0

C) 14 D) 1

Understand It with Pulse Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 8

An acid has a pH that is

A) equal to 7

B) greater than 7

C) equal to 14

D) less than 7

Understand It with Pulse Flag a mistake

Question 9

In a monohybrid cross of a heterozygous parent and a homozygous recessive parent, the percent of offspring described is

Understand It with Pulse Flag a mistake



Question 10

In a monohybrid cross of two heterozygous pea plants, the percent of offspring described is

Understand It with Pulse Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 11

The chemical symbol for carbon dioxide is

A) CO_2

B) H_2O

C) O_2

D) CO

Understand It with Pulse

Flag a mistake

Question 12

The chemical symbol for water is

A) CO_2

B) O_2

C) NaCl

D) H_2O

Understand It with Pulse

Flag a mistake

Question 13

The gas plants absorb from the air for photosynthesis is

A) oxygen

B) carbon dioxide

C) nitrogen

D) hydrogen

Understand It with Pulse

Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 14

The gas released by plants during photosynthesis is

A) carbon dioxide

B) nitrogen

C) oxygen

D) hydrogen

Understand It with Pulse Flag a mistake

Question 15

The maintenance of a stable internal environment is

A) photosynthesis

B) fermentation

C) osmosis

D) homeostasis

Understand It with Pulse Flag a mistake

Question 16

The movement of water across a partially permeable membrane is

A) osmosis

B) diffusion

C) active transport

D) photosynthesis

Understand It with Pulse Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 17

A heart beats 95 times per minute. In 5 minutes it beats

Understand It with Pulse Flag a mistake

Question 18

A population of 40 doubles 4 times. Its final size is

Understand It with Pulse Flag a mistake

Question 19

An object of size 8 units seen at magnification 10 times has image size

Understand It with Pulse Flag a mistake



Question 20

20 grams of fat in butter provide energy at 9 kilocalories per gram. The energy is, in kilocalories

Understand It with Pulse Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 21

10 grams of protein provide energy at 4 kilocalories per gram. The energy is, in kilocalories

Understand It with Pulse Flag a mistake

Question 22

One cell divides 3 times with no cell death. The number of cells is

Understand It with Pulse Flag a mistake

Question 23

A heart beats 85 times per minute. In 3 minutes it beats

Understand It with Pulse Flag a mistake

Question 24

A population of 50 doubles 4 times. Its final size is

Understand It with Pulse Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.



Question 25

An object of size 8 units seen through a microscope at magnification 20 times has image size

Understand It with Pulse Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

ANSWER KEY

1. 195
2. 320
3. 80
4. 360
5. 120
6. 32
7. A
8. D
9. 50
10. 75
11. A
12. D
13. B
14. C
15. D
16. A
17. 475
18. 640
19. 80
20. 180
21. 40
22. 24
23. 255
24. 800
25. 160

© 2026 Brett Robbins. All Rights Reserved.