BIO40 · MANITOBA

BIO40
Practice Test

Unit C: Evolutionary Theory and 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.

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Question 1

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

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Question 2

A population of 30 doubles 4 times. Its final size is

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Question 3

An object of size 2 units seen at magnification 50 times has image size

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Question 4

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

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Question 5

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

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Question 6

A change in the genetic material of an organism is a

A) adaptation

B) variation

C) selection

D) mutation

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Question 7

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

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Question 8

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

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Question 9

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

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Question 10

The chemical symbol for carbon dioxide is

A) H_2O

B) O_2

C) CO_2

D) CO

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Question 11

The chemical symbol for water is

A) CO_2

B) H_2O

C) O_2

D) NaCl

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Question 12

The gas plants absorb from the air for photosynthesis is

A) oxygen

B) nitrogen

C) hydrogen

D) carbon dioxide

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Question 13

The maintenance of a stable internal environment is

A) photosynthesis

B) homeostasis

C) fermentation

D) osmosis

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Question 14

The molecule that carries genetic instructions is

A) RNA only

B) protein only

C) DNA

D) glucose

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Question 15

The movement of water across a partially permeable membrane is

A) diffusion

B) active transport

C) osmosis

D) photosynthesis

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Question 16

The organ that pumps blood around the body is the

A) liver

B) lung

C) kidney

D) heart

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Question 17

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

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Question 18

A population of 10 doubles 4 times. Its final size is

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Question 19

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

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Question 20

A serving of eggs contains 20 grams of protein at 4 kilocalories per gram. The energy is, in kilocalories

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Question 21

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

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Question 22

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

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Question 23

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

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Question 24

An object of size 8 units seen at magnification 30 times has image size

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Question 25

A serving of grilled chicken contains 50 grams of protein at 4 kilocalories per gram. The energy is, in kilocalories

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ANSWER KEY

1. 195
2. 480
3. 100
4. 160
5. 48
6. D
7. 270
8. 50
9. 75
10. C
11. B
12. D
13. B
14. C
15. C
16. D
17. 475
18. 160
19. 160
20. 80
21. 32
22. 255
23. 640
24. 240
25. 200

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