BIO30 · MANITOBA

BIO30
Practice Test

Unit C: Transportation and Respiration

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 40 doubles 4 times. Its final size is

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Question 3

An object of size 4 units seen at magnification 30 times has image size

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Question 4

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

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Question 5

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

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Question 6

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

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Question 7

A change in the genetic material of an organism is a

A) adaptation

B) variation

C) selection

D) mutation

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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

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

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Question 17

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

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Question 18

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

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Question 19

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

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Question 20

40 grams of fat in cheese provide energy at 9 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 70 times per minute. In 4 minutes it beats

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Question 23

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

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Question 24

An object of size 2 units seen at magnification 10 times has image size

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Question 25

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

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ANSWER KEY

1. 195
2. 640
3. 120
4. 80
5. 90
6. 96
7. D
8. 50
9. 75
10. C
11. B
12. D
13. B
14. C
15. C
16. 475
17. 160
18. 100
19. 200
20. 360
21. 40
22. 280
23. 320
24. 20
25. 120

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