BIO30 · MANITOBA

BIO30
Practice Test

Unit B: Digestion and Nutrition

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 75 times per minute. In 5 minutes it beats

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Question 2

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

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Question 3

An object of size 6 units seen at magnification 10 times has image size

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Question 4

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

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Question 5

A serving of eggs contains 30 grams of protein at 4 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) mutation

C) variation

D) selection

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Question 8

A neutral solution has a pH of

A) 0

B) 14

C) 7

D) 1

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Question 9

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

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Question 10

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

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Question 11

The basic unit of life is the

A) organ

B) cell

C) tissue

D) organism

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Question 12

The force that pulls objects toward Earth is

A) friction

B) magnetism

C) inertia

D) gravity

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Question 13

The maintenance of a stable internal environment is

A) photosynthesis

B) fermentation

C) osmosis

D) homeostasis

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Question 14

The molecule that carries genetic instructions is

A) DNA

B) RNA only

C) protein only

D) glucose

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Question 15

The movement of water across a partially permeable membrane is

A) osmosis

B) diffusion

C) active transport

D) photosynthesis

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Question 16

The organ that pumps blood around the body is the

A) liver

B) heart

C) lung

D) kidney

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Question 17

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

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Question 18

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

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Question 19

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

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Question 20

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

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Question 21

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

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Question 22

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

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Question 23

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

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Question 24

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

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Question 25

An object of size 4 units seen through a microscope at magnification 40 times has image size

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ANSWER KEY

1. 375
2. 320
3. 60
4. 360
5. 120
6. 64
7. B
8. C
9. 50
10. 75
11. B
12. D
13. D
14. A
15. A
16. B
17. 195
18. 640
19. 120
20. 180
21. 40
22. 24
23. 475
24. 800
25. 160

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