BIO30 · MANITOBA

BIO30
Practice Test

Unit E: Protection and Control

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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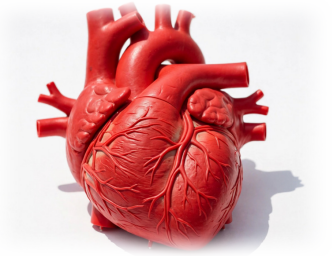

Question 1

A heart beats 95 times per minute. In 5 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 8 units seen at magnification 10 times has image size

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Question 4

50 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 neutral solution has a pH of

A) 0

B) 14

C) 7

D) 1

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Question 7

An acid has a pH that is

A) equal to 7

B) less than 7

C) greater than 7

D) equal to 14

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Question 8

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

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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 chemical symbol for carbon dioxide is

A) H_2O

B) O_2

C) CO_2

D) CO

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Question 12

The chemical symbol for water is

A) CO_2

B) H_2O

C) O_2

D) NaCl

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Question 13

The control centre of the cell, holding genetic material, is the

A) mitochondrion

B) nucleus

C) chloroplast

D) membrane

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Question 14

The force that pulls objects toward Earth is

A) friction

B) magnetism

C) inertia

D) gravity

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Question 15

The gas plants absorb from the air for photosynthesis is

A) oxygen

B) nitrogen

C) hydrogen

D) carbon dioxide

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Question 16

The gas released by plants during photosynthesis is

A) oxygen

B) carbon dioxide

C) nitrogen

D) hydrogen

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Question 17

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

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Question 18

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

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Question 19

An object of size 6 units seen at magnification 30 times has image size

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Question 20

A serving of grilled chicken contains 30 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 75 times per minute. In 5 minutes it beats

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Question 23

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

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Question 24

An object of size 6 units seen at magnification 40 times has image size

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Question 25

A serving of eggs contains 10 grams of protein at 4 kilocalories per gram. The energy is, in kilocalories

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ANSWER KEY

1. 475
2. 640
3. 80
4. 200
5. 64
6. C
7. B
8. 360
9. 50
10. 75
11. C
12. B
13. B
14. D
15. D
16. A
17. 255
18. 320
19. 180
20. 120
21. 40
22. 375
23. 800
24. 240
25. 40

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