FINAL EXAM - PRACTICE TEST | NEW BRUNSWICK BIOLOGY 111-112 · FINAL EXAM · 50 QUESTIONS

Final Exam — Practice Test

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.

1 **A field of view is 2000 micrometres across at 10 times magnification. At 40 times magnification, the field width, in micrometres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A plant produces 60 oxygen bubbles in 4 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In binomial nomenclature, the first name gives the**

A species

B family

C kingdom

D genus

Understand It with Pulse | Flag a mistake

4 **A population of 150 deer grows by 30 in a year. The percent growth for the year is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5

A vaccine works by

A training the immune system to recognize a pathogen

B killing pathogens directly in blood

C replacing white blood cells

D blocking all infection forever

Understand It with Pulse | Flag a mistake

6

Cell theory states that all cells come from

A nonliving matter

B pre-existing cells

C water only

D air only

Understand It with Pulse | Flag a mistake

7 **A yeast culture produces 80 units of carbon dioxide at the start and 120 units after warming. The increase, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A dichotomous key identifies an organism by a series of**

A random guesses

B single names

C pictures only

D paired choices

Understand It with Pulse | Flag a mistake

9 **A food chain starts with a**

A consumer

B producer

C decomposer

D predator

Understand It with Pulse | Flag a mistake

10 **Capillaries are thin walled vessels where**

A blood is pumped

B blood is stored only

C oxygen is made

D exchange with tissues occurs

Understand It with Pulse | Flag a mistake

11 **A cell is 50 micrometres long. At 40 times magnification its image length, in micrometres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Photosynthesis takes in carbon dioxide and water and produces**

A carbon dioxide and water

B glucose and oxygen

C ATP only

D nitrogen and oxygen

Understand It with Pulse | Flag a mistake

13 **Viruses are not classified as living because they**

A have no DNA

B are too small

C cause disease

D cannot reproduce on their own

Understand It with Pulse | Flag a mistake

14 **A parasite benefits while its host is**

A helped

B unaffected

C harmed

D killed instantly always

Understand It with Pulse | Flag a mistake

15 **Insulin lowers blood glucose by helping cells**

A release glucose

B make glucose

C destroy glucose

D take up glucose

Understand It with Pulse | Flag a mistake

16 **A cell is 25 micrometres long. At 200 times magnification its image length, in micrometres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Cellular respiration breaks down glucose and produces**

A glucose and oxygen

B carbon dioxide, water, and ATP

C oxygen only

D chlorophyll

Understand It with Pulse | Flag a mistake

18 **Archaea are prokaryotes that often live in**

A only in soil

B only in water

C only in animals

D extreme environments

Understand It with Pulse | Flag a mistake

19 **Roots grow downward in response to gravity. This is**

A phototropism

B thigmotropism

C geotropism

D hydrotropism

Understand It with Pulse | Flag a mistake

20 **The diaphragm is a muscle that helps with**

A digestion

B blood clotting

C breathing

D hearing

Understand It with Pulse | Flag a mistake

21 **A microscope has an eyepiece magnification of 5 times and an objective magnification of 10 times. Total magnification is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Anaerobic respiration in muscle produces**

A oxygen

B lactic acid

C glucose

D carbon dioxide only

Understand It with Pulse | Flag a mistake

23 **A genus contains 6 species. Two genera in one family contain, in total, species numbering**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **In an energy pyramid, the level with the most energy is the**

- A herbivores
- B carnivores
- C producers
- D top predators

Understand It with Pulse | Flag a mistake

25 **The heart pumps oxygenated blood to the body from the**

- A right side only
- B vena cava
- C left side
- D aorta only as deoxygenated

Understand It with Pulse | Flag a mistake

26 **A microscope has an eyepiece magnification of 10 times and an objective magnification of 30 times. Total magnification is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **A leaf produces 20 bubbles per minute in bright light and 6 bubbles per minute in dim light. The difference, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **A genus contains 5 species. Four genera in one family contain, in total, species numbering**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **A population of 600 deer grows by 120 in a year. The percent growth for the year is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **A person breathes 14 times per minute at rest and 28 times per minute during exercise. The increase, in breaths per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **Prokaryotic cells lack a**

A membrane bound nucleus

B cell membrane

C ribosome

D cytoplasm

Understand It with Pulse | Flag a mistake

32 **A plant produces 36 oxygen bubbles in 3 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **Mammals are distinguished by**

- A feathers
- B hair and mammary glands
- C scales only
- D gills

Understand It with Pulse | Flag a mistake

34 **A population of 300 deer grows by 60 in a year. The percent growth for the year is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A person breathes 12 times per minute at rest and 24 times per minute during exercise. The increase, in breaths per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A microscope has an eyepiece magnification of 10 times and an objective magnification of 60 times. Total magnification is**

ANSWER

Understand It with Pulse | Flag a mistake

37 **A red blood cell in salty water will**

A swell and burst

B stay the same

C gain salt only

D shrink as water leaves

Understand It with Pulse | Flag a mistake

38 **A species is a group of organisms that can**

A live anywhere

B interbreed and produce fertile offspring

C eat the same food

D look alike only

Understand It with Pulse | Flag a mistake

39 **Primary succession begins on**

A old soil after a fire

B a farm field

C bare rock or new land

D a lake bottom only

Understand It with Pulse | Flag a mistake

40 **A heart rate rises from 65 beats per minute at rest to 115 beats per minute during exercise. The increase, in beats per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **Cell theory states that all living things are made of**

A cells

B atoms only

C organs only

D tissues only

Understand It with Pulse | Flag a mistake

42 **A plant produces 70 oxygen bubbles in 7 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A family contains 3 genera with 5 species each. The total number of species is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **Producers capture 2000 units of energy. About 10 percent passes to the next level. Energy at that level, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **When body temperature rises, sweating helps by**

A warming the body

B raising blood pressure

C cooling the body through evaporation

D stopping blood flow

Understand It with Pulse | Flag a mistake

46 **A microscope has an eyepiece magnification of 10 times and an objective magnification of 80 times. Total magnification is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A plant produces 55 oxygen bubbles in 5 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A classification list has 8 levels. If 4 levels are removed, the levels remaining are**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A pond has 6 species of fish, 5 species of frogs, and 4 species of plants. The total number of species counted is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **A heart rate rises from 70 beats per minute at rest to 130 beats per minute during exercise. The increase, in beats per minute, is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 500
2. 15
3. D
4. 20
5. A
6. B
7. 40
8. D
9. B
10. D
11. 2000
12. B
13. D
14. C
15. D
16. 5000
17. B
18. D
19. C
20. C
21. 50
22. B
23. 12
24. C
25. C
26. 300
27. 14
28. 20
29. 20
30. 14
31. A
32. 12
33. B
34. 20
35. 12
36. 600
37. D
38. B
39. C
40. 50
41. A
42. 10
43. 15
44. 200
45. C
46. 800
47. 11
48. 4
49. 15
50. 60

© 2026 Brett Robbins. All Rights Reserved.