MANITOBA SCIENCE 20F · UNIT A · 25 QUESTIONS

Dynamics of Ecosystems — 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 temperature of 5 degrees Celsius converts to Fahrenheit as**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **On a map, 1 unit represents 35 units in real life. A map distance of 7 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A region has population 6000 and area 30 units². Its population density is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A slope rises 100 units over a run of 10 units. Its gradient is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A sample has 50 parts out of 100 in total. The percent is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The mean of temperatures 3, 5, 7, and 9 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A temperature of 35 degrees Celsius converts to Fahrenheit as**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **On a map, 1 unit represents 25 units in real life. A map distance of 5 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A region has population 2000 and area 10 units². Its population density is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A slope rises 100 units over a run of 20 units. Its gradient is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A sample has 30 parts out of 100 in total. The percent is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The mean of temperatures 9, 11, 13, and 15 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A temperature of 25 degrees Celsius converts to Fahrenheit as**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **On a map, 1 unit represents 15 units in real life. A map distance of 3 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A region has population 8000 and area 40 units². Its population density is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The powerhouse of the cell, where energy is released, is the**

- A mitochondrion
- B nucleus
- C ribosome
- D vacuole

Understand It with Pulse | Flag a mistake

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

- A mitochondrion
- B nucleus
- C chloroplast
- D membrane

Understand It with Pulse | Flag a mistake

18 **The organelle where photosynthesis happens in plant cells is the**

A mitochondrion

B nucleus

C chloroplast

D vacuole

Understand It with Pulse | Flag a mistake

19 **The basic unit of life is the**

A organ

B tissue

C organism

D cell

Understand It with Pulse | Flag a mistake

20 **The process by which plants make food using sunlight is**

- A photosynthesis
- B respiration
- C fermentation
- D digestion

Understand It with Pulse | Flag a mistake

21 **The process that releases energy from food in cells is**

- A photosynthesis
- B cellular respiration
- C osmosis
- D diffusion

Understand It with Pulse | Flag a mistake

22 **The molecule that carries genetic instructions is**

A RNA only

B protein only

C DNA

D glucose

Understand It with Pulse | Flag a mistake

23 **A change in the genetic material of an organism is a**

A adaptation

B variation

C selection

D mutation

Understand It with Pulse | Flag a mistake

24 **The passing of traits from parents to offspring is**

A heredity

B evolution

C homeostasis

D metabolism

Understand It with Pulse | Flag a mistake

25 **The maintenance of a stable internal environment is**

A photosynthesis

B homeostasis

C fermentation

D osmosis

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	41	**10.**	5	**19.**	D
2.	245	**11.**	30	**20.**	A
3.	200	**12.**	12	**21.**	B
4.	10	**13.**	77	**22.**	C
5.	50	**14.**	45	**23.**	D
6.	6	**15.**	200	**24.**	A
7.	95	**16.**	A	**25.**	B
8.	125	**17.**	B		
9.	200	**18.**	C		

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