PHOTOSYNTHESIS, RESPIRATION, AND CELL MEMBRANES - PRACTICE TEST | NEW BRUNSWICK BIOLOGY 111-112 · UNIT B · 25 QUESTIONS

Photosynthesis, Respiration, and Cell Membranes — 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 plant produces 30 oxygen bubbles in 2 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A plant produces 45 oxygen bubbles in 3 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A plant produces 20 oxygen bubbles in 5 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A yeast culture produces 100 units of carbon dioxide at the start and 150 units after warming. The increase, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A yeast culture produces 200 units of carbon dioxide at the start and 260 units after warming. The increase, in units, is**

ANSWER _____

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 **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

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

A glucose and oxygen

B carbon dioxide, water, and ATP

C oxygen only

D chlorophyll

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10 **The energy currency of the cell is**

A DNA

B RNA

C ATP

D glucose

Understand It with Pulse | Flag a mistake

11 **Photosynthesis occurs mainly in the**

A mitochondrion

B nucleus

C ribosome

D chloroplast

Understand It with Pulse | Flag a mistake

12 **Aerobic respiration requires**

A oxygen

B carbon dioxide only

C light only

D chlorophyll only

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13 **Anaerobic respiration in muscle produces**

A oxygen

B lactic acid

C glucose

D carbon dioxide only

Understand It with Pulse | Flag a mistake

14 **Diffusion is movement of particles from**

A low concentration to high concentration

B cold to hot only

C high concentration to low concentration

D solid to liquid only

Understand It with Pulse | Flag a mistake

15 **Osmosis is the diffusion of**

A salt across a wall

B glucose into blood

C oxygen into lungs only

D water across a membrane

Understand It with Pulse | Flag a mistake

16

A cell placed in pure water will

A gain water by osmosis

B lose water by osmosis

C stay the same always

D burst only if animal

Understand It with Pulse | Flag a mistake

17

Active transport moves substances

A down a gradient without energy

B against a concentration gradient using energy

C only through pores

D only in plants

Understand It with Pulse | Flag a mistake

18 **The cell membrane is described as selectively permeable because it**

- A allows everything through
- B blocks everything
- C allows some substances through and not others
- D is made of protein only

Understand It with Pulse | Flag a mistake

19 **Increasing light intensity, up to a point, increases the rate of**

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

Understand It with Pulse | Flag a mistake

20 **A leaf produces 12 bubbles per minute in bright light and 4 bubbles per minute in dim light. The difference, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A plant produces 80 oxygen bubbles in 4 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A plant produces 100 oxygen bubbles in 5 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **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

24 **A yeast culture produces 120 units of carbon dioxide at the start and 200 units after warming. The increase, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A plant produces 90 oxygen bubbles in 6 minutes. Its rate, in bubbles per minute, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	15	**10.**	C	**19.**	D
2.	15	**11.**	D	**20.**	8
3.	15	**12.**	A	**21.**	20
4.	4	**13.**	B	**22.**	20
5.	50	**14.**	C	**23.**	14
6.	60	**15.**	D	**24.**	80
7.	40	**16.**	A	**25.**	15
8.	B	**17.**	B		
9.	B	**18.**	C		

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