PRINCE EDWARD ISLAND BIOLOGY 11 · UNIT B

Cellular Respiration and Photosynthesis — Practice Test

Prince Edward Island Biology 11 • 10 questions

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 **Photosynthesis to make 4 glucose molecules uses how many carbon dioxide molecules in total, if each glucose needs 6 carbon dioxide molecules**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Glycolysis produces a net gain of 2 ATP molecules per glucose molecule. How many ATP molecules in total are gained from 10 glucose molecules by glycolysis alone**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The Calvin cycle of photosynthesis takes place in the**

A thylakoid membranes

B stroma

C mitochondrion

D cytoplasm

Understand It with Pulse | Flag a mistake

4 **The first stage of aerobic cellular respiration is**

A the Krebs cycle

B the electron transport chain

C glycolysis

D fermentation

Understand It with Pulse | Flag a mistake

5 **The Krebs cycle takes place in the**

A chloroplast

B cytoplasm only

C nucleus

D mitochondrion

Understand It with Pulse | Flag a mistake

6 **The main energy carrier produced by cellular respiration is**

A glucose

B oxygen

C ATP

D carbon dioxide

Understand It with Pulse | Flag a mistake

7 **The overall equation for photosynthesis produces oxygen as a**

A reactant

B enzyme

C byproduct

D pigment

Understand It with Pulse | Flag a mistake

8 **The pigment that captures light energy in photosynthesis is**

A haemoglobin

B chlorophyll

C melanin

D carotene only

Understand It with Pulse | Flag a mistake

9 **Water for photosynthesis is taken up by the**

A roots

B leaves only

C stomata

D flowers

Understand It with Pulse | Flag a mistake

10 **Photosynthesis to make 5 glucose molecules uses how many carbon dioxide molecules in total, if each glucose needs 6 carbon dioxide molecules**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	24	**5.**	D	**9.**	A
2.	20	**6.**	C	**10.**	30
3.	B	**7.**	C		
4.	C	**8.**	B		

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