ONTARIO BIOLOGY, GRADE 12, UNIVERSITY PREPARATION (SBI4U) · UNIT B

Metabolic Processes — Practice Test

Ontario Biology, Grade 12, University Preparation (SBI4U) • 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 **CAM plants open their stomata mainly at**

A Dawn only

B Midday

C Night

D No time at all

Understand It with Pulse | Flag a mistake

2 **Which organelle is the site of aerobic respiration**

A Vacuole

B Chloroplast

C Ribosome

D Mitochondrion

Understand It with Pulse | Flag a mistake

3 **Decarboxylation during the Krebs cycle releases**

A Nitrogen gas

B Hydrogen gas

C Oxygen

D Carbon dioxide

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4 **The electron transport chain in chloroplasts is located in the**

A Envelope only

B Thylakoid membrane

C Stroma

D Grana starch grain

Understand It with Pulse | Flag a mistake

5 **Which pigment absorbs light most strongly in the blue and red regions**

A Carotene

B Chlorophyll a

C Xanthophyll

D Anthocyanin

Understand It with Pulse | Flag a mistake

6 **If oxygen is unavailable, the electron transport chain stops because electrons have**

- A Too much energy
- B No final acceptor
- C Too many protons
- D No NADH to carry them

Understand It with Pulse | Flag a mistake

7 **Glyceraldehyde 3 phosphate is a product of the Calvin cycle used to make**

- A Chlorophyll
- B Oxygen gas
- C Glucose and other carbohydrates
- D Only ATP

Understand It with Pulse | Flag a mistake

8 **Which statement about ATP is correct**

A ATP stores energy in glucose bonds

B ATP is made only in chloroplasts

C ATP hydrolysis releases usable energy

D ATP is a long term storage molecule

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9 **During exercise, muscle cells switch to lactic acid fermentation when oxygen supply is**

A Insufficient for demand

B Replaced by nitrogen

C Blocked by carbon dioxide

D Excessive

Understand It with Pulse | Flag a mistake

10 **Photosynthesis fixes 6 carbon dioxide molecules to make one glucose. For 5 glucose molecules, the carbon dioxide molecules fixed total**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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