

Unit 3 Quiz

True False Questions

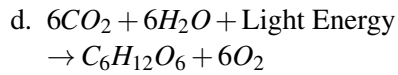
Indicate True or False for the following Statements.

1. The ultimate source of energy is the Sun. (True/False)
2. Glucose is formed as an end product of photosynthesis. (True/False)
3. Cellular respiration results in the formation of ATP. (True/False)
4. The hydrolysis of ATP is endergonic. (True/False)
5. Sunlight is not required in the process of chemosynthesis. (True/False)
6. Starch and glycogen can be converted into glucose. (True/False)

Multiple Choice Questions

For each question, four alternative choices are given, of which only one is correct. You have to select the correct alternative and mark it in the appropriate option.

7. Which of the following is producer?
 - a. Hawk
 - b. Lizard
 - c. Chipmunk
 - d. None of the above
8. The site of photosynthesis is the _____.
 - a. Nucleus
 - b. Ribosome
 - c. Mitochondria
 - d. Chloroplast
9. What is the byproduct of photosynthesis?
 - a. Oxygen
 - b. Water
 - c. Carbon Dioxide
 - d. Sugar
10. During the Calvin cycle of photosynthesis, _____.
 - a. Glucose is broken into 3 carbon sugars
 - b. Water splits
 - c. Chlorophyll is reduced
 - d. Carbon dioxide is chemically changed into organic compounds
11. Which equation best describes photosynthesis?
 - a. $6CO_2 + C_6H_{12}O_6 \rightarrow 6H_2O + 6O_2$
+ Light Energy
 - b. $C_6H_{12}O_6 + 6O_2 + \text{Light Energy}$
 $\rightarrow 6CO_2 + 6H_2O$
 - c. $6CO_2 + 12H_2O + \text{Light Energy}$
 $\rightarrow C_6H_{12}O_6 + 12O_2$



12. Apart from sunlight, which is/are other sources of energy for some living organisms?
- Hydrogen sulfide
 - Methane
 - Hydrogen gas
 - All of the above
13. If your muscles use up too much ____ during strenuous exercise, they begin producing ____, which is what causes fatigue and burning sensations.
- oxygen; carbon dioxide
 - pyruvic acid; lactic acid
 - oxygen; lactic acid
 - glycogen; pyruvic acid
14. Where does glycolysis take place?
- in the intermembrane space
 - in the matrix
 - in the cristae
 - in the cytoplasm
15. The folds in the inner membrane of mitochondria are called
- intermembrane spaces
 - villi
 - cristae
 - matrices
16. Which of the following processes creates the most ATP?
- fermentation
 - citric acid cycle
 - glycolysis
 - electron transport chain
17. Where does cellular respiration mainly take place?
- in the nucleus
 - in the mitochondria
 - in the cell membrane
 - in the chloroplast
18. What does 'anaerobic' mean?
- In the mitochondria
 - With oxygen
 - With air
 - Without oxygen