Practice Questions

Photosynthesis

Question 1

The first stage of photosynthesis takes place in the_____.

A. **Thylakoids.**

B. **Grana**

C. **Stomata**

D. **Stroma**

Question 2

In the leaf, the CO_2 enters and the oxygen is released through_____.

A. Stroma

B. Stoma

C. Granum

D. Epidermis

Question 3

Which of the following is not required during photosynthesis?

A. Water

B. Carbon dioxide

C. Oxygen.

D. Light

Question 4

During what stage of photosynthesis is O_2 produced?

A. Carbon fixation

B. Light – dependent reactions.

C. Light – independent reactions

D. Calvin cycle

Question 5

In plant cell, leaves are _____.

A. Responsible for storage

B. Responsible for photosynthesis.

C. Responsible for support

D. None of the above

Question 6

In the light reactions, solar energy is converted to chemical energy stored in both ATP and _____.

A. AMP

B. ADP

C. NADPH.

D. NADH

Question 7

Both carotenoids and chlorophyll are _____.

A. Coenzymes

B. Organelles

C. Pigments

D. Cofactors

Question 8

ATP is _____.

A. required for the Calvin cycle.

B. a product of the Calvin cycle

C. required for the light reactions

D. not required during photosynthesis

Question 9

The Calvin cycle occurs in the _____of the chloroplast.

A. Thylakoids

B. Stoma

C. Stroma

D. The inner mitochondrial membrane

Question 10

What energy-rich organic compound is produced as a result of the Calvin cycle?

A. ATP

B. Sugar

C. NADPH

D. O_2

Question 11

In the leaf, chloroplasts are concentrated in the _____.

A. Epidermis

B. Veins

C. Mesophyll

D. Thylakoids

Question 12

The oxygen released during photosynthesis comes from:

A. Carbon dioxide

B. Carbon dioxide and water

C. Water

D. Glucose

Question 13

The chemical reactions that break larger molecules into smaller molecules. It is usually an exergonic process.

A. Anabolism

B. Mechanism

C. Catabolism

D. Dynamism

Question 14

The chloroplast is the site of photosynthesis in a plant cell. It is enclosed by _____ membranes.

A. One

B. Two

C. Three

D. Four

Question 15

Photosynthesis is an _____reaction.

A. Exergonic

B. Endergonic.

C. a & b

D. None of the above

Question 16

What type of metabolic reaction involves a loss of electrons from the molecule involved?

A. Oxidation

B. Reduction

C. Phosphorylation

D. Fermentation

Question 17

Which of the following is not a coenzyme?

A. FAD

B. NAD

C. NADP

D. ATP

Question 18

Plants are _____.

A. Autotrophs

B. Prototrophs

C. Heterotrophs

D. Auxotrophs

Question 19

What type of metabolic reaction involves a gain of electrons from the molecule involved?

A. Oxidation

B. Reduction

C. Phosphorylation

D. Fermentation

Question 20

The release of energy in an organism depends on the conversion of

A. AMP to ADP.

B. ADP to ATP.

C. ATP to ADP.

D. ATP to AZP.

Question 21

Which of the following are produced during the light reactions ?

A. CO_2, electrons and ATP

B. Glucose, electrons and ATP

C. Oxygen, electrons and ATP

D. Water

Question 22

Photoautotroph are organisms

A. Depending on others organisms
B. Making their food depending on inorganic chemicals
C. Depending on consumers
D. Making their food depending on light

Question 23

Grana are found within organelles called

A. Golgi apparatus

B. Lysosomes

C. mitochondria

D. Chloroplasts

Question 24

The fuel for respiration in plants mainly comes from?

A. Photosynthesis

B. The Krebs cycle

C. Electron transport chain

D. Glycolysis

Question 25

Which of the following organisms DO NOT carry on photosynthesis?

A. Fungi

B. Plants

C. Algae

D. Protists

ANSWERS

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

11.	C
12.	C
13.	C
14.	B
15.	B
16.	A
17.	D
18.	A
19.	B
20.	C

21.	C
22.	D
23.	D
24.	A
25.	A