

Question No. 1

Osmosis means.....

- Movement of solute molecules
- Movement of gas particles in available space
- Movement of both solvent and solute
- Movement of water molecules

D

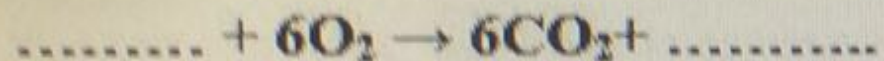
Question No. 24

The only step used in lactic acid fermentation is

- Glycolysis
- Phosphorylation
- Calvin cycle
- Krebs cycle

A

Question No. 21



(Cellular respiration equation)

- $\text{C}_6\text{H}_{12}\text{O}_6 - 6\text{H}_2\text{O}$
- $6\text{OH} - 6\text{H}_2\text{O}$
- $6\text{H}_2\text{O} - 6\text{OH}$
- $6\text{H}_2\text{O} - \text{C}_6\text{H}_{12}\text{O}_6$

A

Question No. 10

Ink molecules spread in an available space by

- Exocytosis
- Osmosis
- Diffusion
- Active transport

C

Question No. 1

which of the following mechanisms moves ions, proteins, and complex sugars against their concentration gradient?

- Passive transport
- Osmosis
- Diffusion
- Active transport

D

Question No. 3

Which structure is common in animal and plant cells?

- Nucleus
- Cell membrane
- All answers are correct
- DNA

C

Question No. 10

Ink molecules spread in an available space by

- Exocytosis
- Osmosis
- Diffusion
- Active transport

C

Question No. 4

Microscopes which can resolve cell organelles clearly are called.....

- All these correct
- Dissecting microscopes
- Electron microscopes
- Light microscopes

C

Question No. 3

Plants differ from animals, only plant cell has

- Nucleus
- Endoplasmic reticulum
- Cell wall
- Mitochondria

C

Question No. 8

All of the following about Mitochondria are correct except

- They are energy converting organelles
- They contain DNA
- They are found only in animal cells
- They carry out cellular respiration

C

Question No. 2

Cellular eating is called.....

- Osmosis
- Pinocytosis
- Phagocytosis
- Exocytosis

C

Question No. 7

Mitochondria and chloroplasts are.....

- Extracellular components
- Energy-converting organelles
- Part of the endo-membrane system
- Organelles with a single membrane

B

Question No. 1

Aquaporins are.....

- Enzymes
- Fatty acids
- Polysaccharides
- Transport proteins

D

Question No. 5

Plant cell wall is mainly consists of.....

- Nuclic acid
- Collagen
- Cellulose
- Starch

C

Question No. 6

Modify, receive & pack materials into transport vesicles.....

- Nucleus
- Lysosomes
- Golgi apparatus
- Chloroplast

C

Question No. 4

Which of the following organelles can be easily observed with the light microscope?

- Golgi bodies
- Nucleus
- Lysosomes
- Ribosomes

B

Question No. 6

.....are the sites of protein synthesis

- Lysosomes
- Ribosomes
- Golgi apparatus
- Mitochondria

B

Question No. 7

Which of the following is NOT energy-related organelle?

- Nucleus
- Endoplasmic reticulum
- All of them
- Golgi bodies

C

Question No. 8

In an animal cell, DNA may be found in the.....

- Chloroplasts and nucleolus
- Nucleus and mitochondria
- Chloroplast and mitochondria
- Lysosomes and nuclues

B

Question No. 9

All of the following transported by active transport except the -----

- Ions
- Complex sugars
- Gases
- Proteins

C

Question No. 11

ATP molecules are needed in the transport of

- Oxygen
- Carbon dioxide
- Polysaccharides to areas of higher concentrations
- Water

C

Question No. 12

Breaks down a complex molecule is called.....

- Nanobolism
- Anabolism
- Catabolism
- Metabolism

C

Question No. 13

The law of thermodynamics states that during energy transformations, some energy is lost as heat.

- Second
- Third
- Fourth
- First

A

Question No. 10

Which of the followings is NOT consider a function for membrane proteins

- None of these
- Energy harvesting
- As enzymes
- Transport

B

Question No. 22

Which stage of aerobic respiration produce CO_2 and 2ATP?

- All the stages
- Glycolysis
- Krebs cycle
- Oxidative phosphorylation

C

Question No. 25

Which of the following is a product of alcohol fermentation?

- Oxygen and carbon dioxide
- Glucose and carbon dioxide
- Oxygen and ATP
- Ethanol and carbon dioxide

D

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Question No. 14

Organisms making their food using light are

- Chemo-autotrophic
- Heterotrophic
- Photo-autotrophic and chemo-autotrophic
- Photo-autotrophic

D

Question No. 15

The inner room of chloroplast is called.....

- Stroma
- Thylakoid
- Granum
- Outer membrane

A

Question No. 23

Which of these NOT TRUE? Aerobic cellular respiration.....

- Break down glucose
- Produces carbon dioxide
- Is a single step.
- Releases ATP

B

Question No. 16

Chloroplast is.....

- Found in plant cells
- An-energy converting organelle
- all answers are correct
- a double membrane organelle

C

The source of oxygen released in photosynthesis is

- Glucose
- Carbon dioxide
- Pyruvate
- Water

D

The source of oxygen released in photosynthesis is

- Glucose
- Carbon dioxide
- Pyruvate
- Water

D

Question No. 18

Chlorophyll

- Absorbs sun light
- Absorbs carbon dioxide
- Absorbs oxygen
- Absorbs water

A

Question No. 20

The energy in glucose changes into ATP inside the.....

- cell membrane
- Mitochondria
- Golgi bodies
- Nucleus

B

Question No. 10

The molecule which moves easier/faster across the plasma membrane is

- Protein
- Complex sugar
- Carbon dioxide
- Fatty acid

C

Question No. 11

Which one of the following statements is NOT TRUE about diffusion?

- It does not need a semi-permeable membrane
- It does not require energy
- Molecules move from high concentration areas to low concentration areas
- It needs a semi-permeable membrane

D

Question No. 12

Each enzyme has a particular target molecule called.....

- Active site
- Coenzyme
- Substrate
- Cofactor

C

No. 9

pholipids membrane have.....

- Hydrophilic tails
- Hydrophilic heads and tails
- Hydrophobic heads and tails
- Hydrophilic heads

D



Question No. 16

The source of food we eat and the oxygen we breathe is.....

- Glycolysis.
- Photosynthesis.
- Fermentation
- Cellular respiration

B

Question No. 22

In the last step of cellular respiration, electrons move through inner membrane of mitochondria. This is

- Krebs cycle
- Light-dependent reactions
- Calvin cycle
- Electron transport chain

D

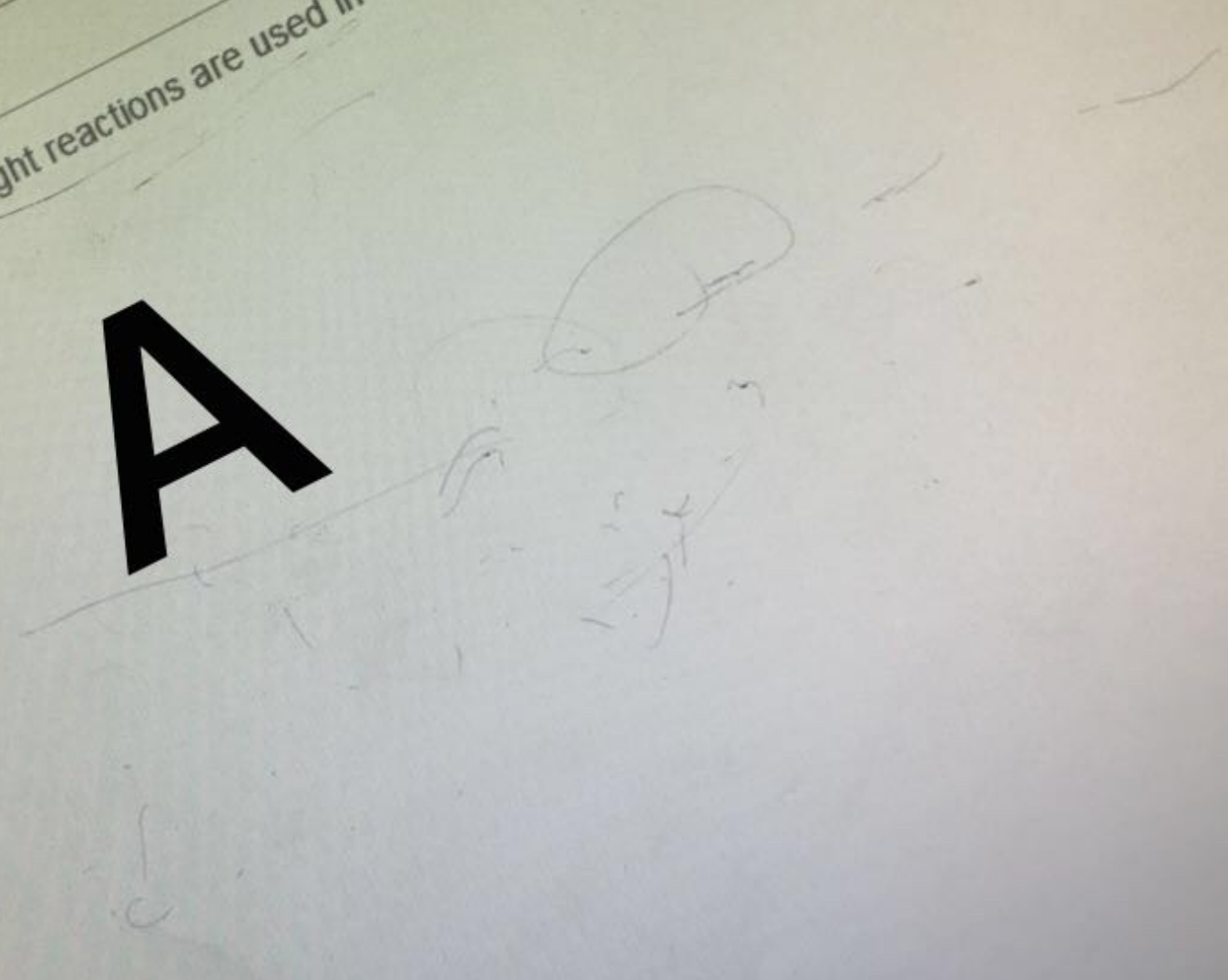


Question No. 19

In photosynthesis, ATP and electrons from light reactions are used in

- Calvin cycle
- Glycolysis
- Oxidative phosphorylation
- Krebs cycle

A



Question No. 22

Which stage of aerobic respiration produce CO_2 and 2ATP?

C

- All the stages
- Glycolysis
- Krebs cycle
- Oxidative phosphorylation

Question No. 14

Green plants have cells which

- Lack mitochondria but have chloroplasts.
- Lack mitochondria and chloroplasts.
- Have mitochondria and chloroplasts.
- Have mitochondria but do not have chloroplasts.

C

Question No. 24

Number of stages in anaerobic respiration is

- Three stages
- Six stages
- Four stages
- One stage

D

Question No. 16

The fluid-mosaic model of the cell membrane is a

- Mono-layer of phospholipid with embedded proteins
- Bi-layer of phospholipid with embedded proteins
- Tri-layer of phospholipid with embedded proteins
- Bi-layer of primary proteins with embedded lipids

B

Question No. 5

.....use enzymes to recycle the cell's organelles

- Golgi apparatus
- Chloroplast
- Nucleus
- Lysosomes

D

Question No. 19

Light-dependent reactions in photosynthesis.....

- Occurs within the thylakoid membrane
- Need ATP from Calvin cycle
- Produce sugar
- Do not require light energy

A

Question No. 23

Which of these NOT TRUE? Aerobic cellular respiration.....

- Break down glucose
- Produces carbon dioxide
- Is a single step.
- Releases ATP

C

Question No. 2

Cells which carry out a lot of active transport often have a lots of.....

- Endoplasmic reticulum
- Mitochondria
- Lysosome
- Chloroplast

B

Question No. 23

Which of these NOT TRUE? Aerobic cellular respiration.....

- Is a single step.
- Releases ATP
- Break down glucose
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A

Question No. 10

Which of the followings is NOT consider a function for membrane proteins

- None of these
- Energy harvesting
- As enzymes
- Transport

B

Question No. 24

The step in aerobic respiration which is absent in anaerobic respiration is

- All answers are correct
- Glycolysis
- Krebs cycle
- Calvin cycle

C

Question No. 18

The source of oxygen released in photosynthesis is

B

- Pyruvate
- Water
- Glucose
- Carbon dioxide

Question No. 13

The law of thermodynamics states that during energy transformations, some energy is lost as heat.

- Fourth
- First
- Second
- Third

C

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Question No. 10

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