

Muscle tissues function وظيفة وظيفته in

- Protection
- Communication
- Sensation
- Movement

D

✓

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Question No. 26

Genes are .....

- Strands of RNA
- Amino acids
- RNA and sugars
- Pieces of DNA

D

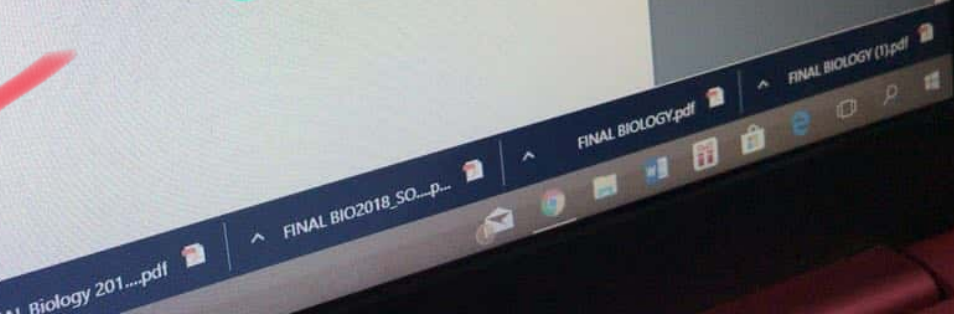
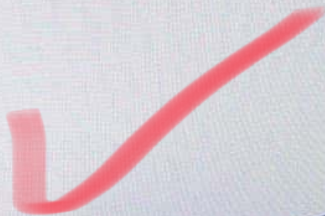


Question No. 7

Movement of solute against concentration gradient الحركه العكسه للتركيز is called.....

- Osmosis
- Active نشط transport
- Passive سلبى transport
- Diffusion انتشار

B



Which tissue protects <sup>نحوي</sup> organs inside the body?

- Epithelial tissues
- Muscular tissues
- All answers are correct
- Neurons

A



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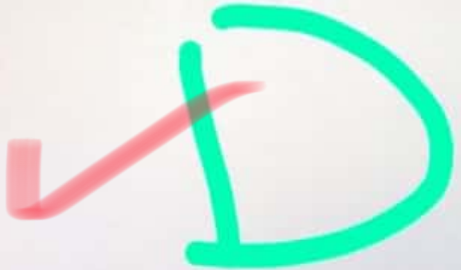
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The photosynthesis produces oxygen and sugar through

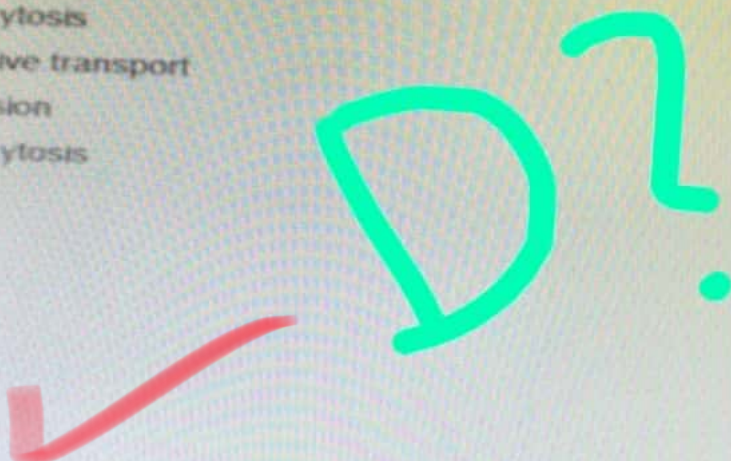
- Krebs and Calvin cycles
- Krebs and Citric acid cycles
- Oxidative phosphorylation
- Light dependent reaction and Light independent reactions



**Question No. 8**

Membranes may fold inward enclosing material from the outside by a process called.....

- Exocytosis
- Passive transport
- Diffusion
- Pinocytosis



**Question No. 33**

The total of all energy used by animals is called.....

- Respiration rate
- Energy resting rate
- Metabolic rate
- Kinetic energy

~~B?~~ C

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Question No. 17

Which one of the following is true?

- Cellular respiration occurs in mitochondria and in chloroplasts.
- Photosynthesis occurs in mitochondria and in chloroplasts.
- Cellular respiration occurs in mitochondria.
- Photosynthesis occurs in mitochondria.

C

✓

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**Question No. 20**

Which of the following stages give two ATP for a glucose molecule?

- Electron transport chain
- Calvin cycle and Electron transport chain
- Calvin cycle and Krebs cycle
- Glycolysis and Krebs cycle

D



**Question No. 25**

Monomers of both DNA and RNA are called .....

- Amino acids
- Fatty acids
- Monosaccharides
- Nucleotides



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**Question No. 24**

A nucleotide consists of .....

- Sugar
- All answers are correct
- Nitrogen base
- Phosphate group

B

**Question No. 21**

Glycolysis occurs in .....

- Aerobic respiration only
- Photosynthesis
- Anaerobic respiration only
- Both aerobic and anaerobic respiration

D

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**Question No. 10**

Organelle called the membranes factory of the cell?

- Rough endoplasmic reticulum
- Smooth endoplasmic reticulum
- Lysosomes
- Golgi apparatus

A

Question No. 11

Organelles that modifies products of the endoplasmic reticulum.....

- Golgi apparatus
- Endoplasmic reticulum
- Ribosomes
- Lysosomes

A?

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**Question No. 23**

Nitrogenous bases are.....

- Parallel to the sugar-phosphate backbone
- All answers are correct
- Horizontal to the sugar-phosphate backbone
- perpendicular to the sugar-phosphate backbone



**Question No. 8**

Cells import large solid particles through .....

- Exocytosis
- Diffusion
- Phagocytosis
- Pinocytosis

C



**Question No. 30**

Which muscle is found in the walls of the digestive canal ?

- Skeletal muscle
- All answers are correct
- Smooth muscle
- Cardiac muscle

C

**Question No. 27**

DNA polymerase function is.....

- Joining small fragments of DNA strands
- Joining small fragments of RNA strands
- Corrects improper base pairings in DNA replication
- Involved in RNA replication

C

**Question No. 24**

Translation ترجمة of information on RNA occurs in the .....

- Chloroplast
- Cytoplasm
- Nucleus
- Mitochondria

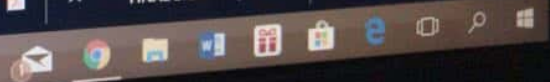
B

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**Question No. 12**

All of the following about Mitochondria are correct except .....

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

C

**Question No. 29**

Group of similar متشابهة cells is called .....

- Organelles
- Organ
- Tissue
- Organ System

C

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### Question No. 30

The structural **تركيبية** and functional **وظيفية** units of nervous tissues are.....

- Bones
- Muscle
- Red blood cells
- Neurons



Question No. 4

The organelle **المحبة** which helps in calcium storage **تخزين** is.....

- Chloroplast
- Ribosome
- Rough endoplasmic reticulum **الشبكة الإندوبلازمية المحبة**
- Smooth endoplasmic reticulum **الشبكة الإندوبلازمية العنساء**



Question No. 7

Plasma membrane is .....

- Not a part of the endomembrane system منظومة الأغشية
- Fluid mosaic فسيفساء مائع
- Not permeable غير نافذ
- Solid mosaic فسيفساء صلب

B

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**Question No. 15**

Redox reactions تفاعلات الأكسدة in cellular respiration التنفس الخلوي include

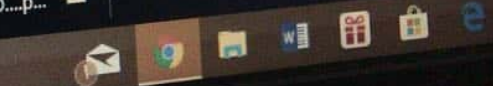
- Reduction and Oxidation
- Hydrolysis and Oxidation
- Reduction and Hydrolysis
- Oxidation and Dehydration

A

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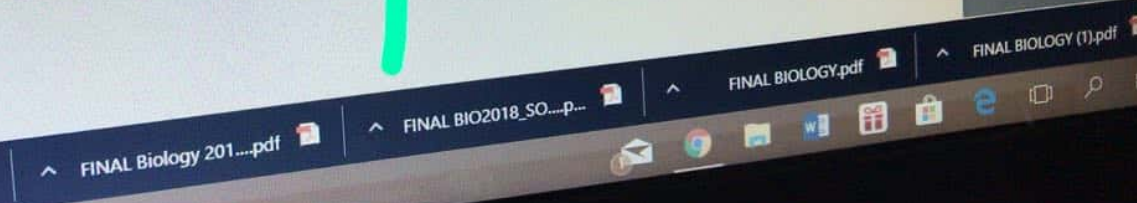


Question No. 32

The body system which eliminates food wastes *يؤخذ من فضلات الطعام* is the.....

- Digestive
- Nervous
- Circulatory
- Skeletal

A



Question No. 20

Chromosomes الكروموسومات consist of .....

- DNA and protein
- DNA and lipids
- RNA and sugar
- RNA and amino acids

A

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**Question No. 18**

What is the smallest unit of heredity?

- Gene
- Cell
- RNA
- Amino acid

A

Question No. 44

In body tissues \_\_\_\_\_

- Blood drops oxygen and takes up carbon dioxide
- Blood mix gases
- Blood mixes with hemoglobin
- Blood takes up oxygen and drops <sup>يسقط</sup> carbon dioxide

A

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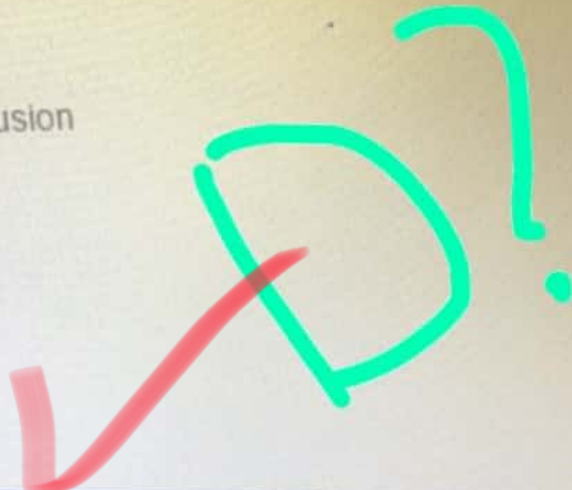
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### Question No. 45

In lungs, gases are exchanged **يتم تبادلها** by \_\_\_\_\_ process

- Neither osmosis nor diffusion
- Osmosis **أسموزية**
- Osmosis and Diffusion
- Diffusion



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Question No. 43

Each Hemoglobin molecule can carry up to \_\_\_\_\_  $O_2$  atoms

- 10
- 2
- 6
- 4

D

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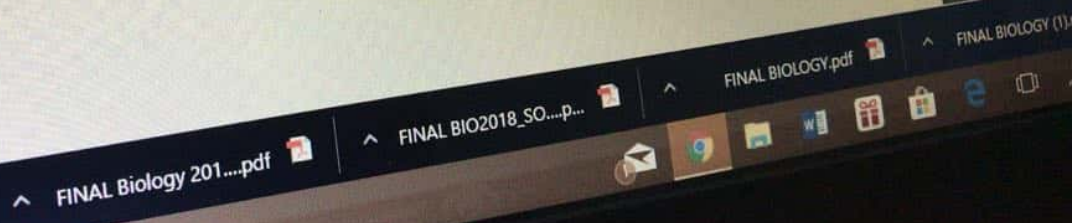
ASUS

**Question No. 42**

Which process takes place in lungs?

- Blood is mixed with food
- Food is digested
- Gases are exchanged
- Wastes are recycled تدوير المخلفات

C





Question No. 39

Earth worms تبادل الغازات exchange نيدان الأرض through \_\_\_\_\_

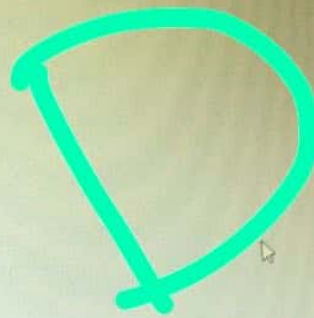
- Lungs
- Gills
- Tracheal قصبات system
- Outer skin



Question No. 36

Which tube **قنوية** connects the stomach **معدة** to the pharynx **بلعوم**?

- Large intestine **أمعاء**
- Trachea **قصبة هوائية**
- Small intestine
- Esophagus **مرئ**



Question No. 33

Where the chyme الكيموس is produced?

- Liver كبد
- Pancreas بنكرياس
- Stomach معدة
- Mouth

C

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### Question No. 35

The longest الأطول part of the digestive tract قناة هضمية is the.....

- Stomach معدة
- Esophagus عرئ
- Small intestine
- Large Intestine أمعاء



**Question No. 12**

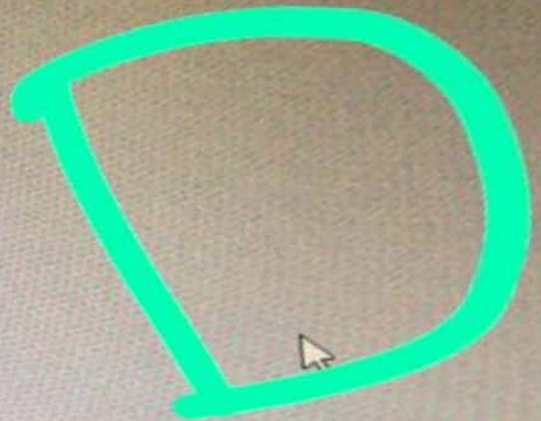
Inputs <sup>مدخلات</sup> of photosynthesis equation <sup>معادلة</sup> are .....

- Water and glucose
- Oxygen and lactic acid
- Glucose and oxygen
- Carbon dioxide and water



Cellular drinking is called.....

- Exocytosis
- Phagocytosis
- All the answers are correct
- Pinocytosis



Question No. 2

The process by which large molecules exit from the cell is ..... and enter the cell is .....

- Diffusion - Osmosis
- Exocytosis - Endocytosis
- Osmosis - Diffusion
- Endocytosis - Exocytosis

B

Question No. 3

Animal cells have ..... but plant cells have not.

- Cell wall
- Nucleus
- Lysosomes
- Cell membrane

C

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Question No. 4

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

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

B

Question No. 5

Ribosomes attached to the endoplasmic reticulum are called.....

- Enclosed ribosomes
- Bound ribosomes
- None of them
- Free ribosomes

B

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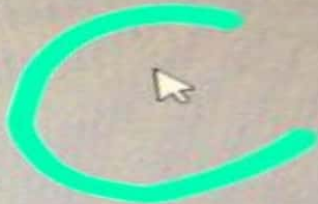
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ASUS

**Question No. 8**

In a plant cell, DNA may be found in the.....

- Cytoplasm, mitochondria, and nucleus
- Cell wall, nucleus, and mitochondria
- Nucleus, mitochondria, and chloroplasts
- Central vacuole, chloroplast, and mitochondria



Question No. 10  
.....blocks enzyme substrate from entering the active site.

- Sharing inhibitor
- Competitive inhibitor
- Non-sharing inhibitor
- Non-competitive inhibitor

B

**Question No. 9**

Ink molecules spread in an available space by .....

- Osmosis
- Exocytosis
- Diffusion
- Active transport

C



Question No. 24

One of the functions of mRNA is to \_\_\_\_\_

- Carry genetic information out of the nucleus.
- Join DNA strands together.
- Make copies of itself.
- Transfer genetic information to DNA.

A

**Question No. 17**

Which one of the following is true?

- Cellular respiration occurs in mitochondria and in chloroplasts.
- Photosynthesis occurs in mitochondria and in chloroplasts
- Cellular respiration occurs in mitochondria
- Photosynthesis occurs in mitochondria



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**Question No. 8**

Membranes may fold inward enclosing material from the outside by a process called.....

- Exocytosis
- Passive transport
- Diffusion
- Pinocytosis



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Question No. 10

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Question No. 2

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- Endocytosis - Exocytosis

B

Question No. 5

Ribosomes attached to the endoplasmic reticulum are called.....

- Enclosed ribosomes
- Bound ribosomes
- None of them
- Free ribosomes

B

**Question No. 6**

The primary structure of the protein results from.....

- An interaction between the R groups of various amino acids
- All answers are correct
- A unique amino acid sequence
- The folding and coiling of the polypeptide



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Question No. 4

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

- Nucleus
- Lysosomes
- Golgi bodies
- Ribosomes

A

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Question No. 8

In a plant cell, DNA may be found in the.....

- Cytoplasm, mitochondria, and nucleus
- Cell wall, nucleus, and mitochondria
- Nucleus, mitochondria, and chloroplasts
- Central vacuole, chloroplast, and mitochondria



Question No. 29

Which tissue protects <sup>نحفي</sup> organs inside the body?

- Epithelial tissues
- Muscular tissues
- All answers are correct
- Neurons

A



Question No. 17

Glycolysis occurs in .....

- Both aerobic and anaerobic respiration
- Anaerobic respiration only
- Photosynthesis
- Aerobic respiration only



Question No. 6

Organelle called the membranes factory of the cell?

- Smooth endoplasmic reticulum
- Lysosomes
- Golgi apparatus
- Rough endoplasmic reticulum

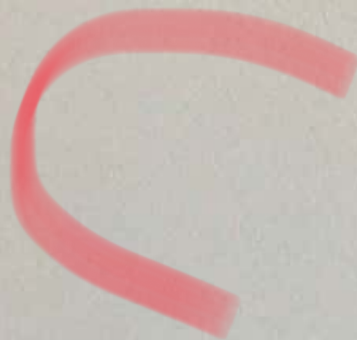


Previous & Next

Question No. 15

The term aerobic means.....

- Without O<sub>2</sub>
- Without ATP
- With O<sub>2</sub>
- Without glucose



Question No. 4

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

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

B



خط التالي

Question No. 30

Which muscle is found in the walls of the digestive canal ?

- Skeletal muscle
- All answers are correct
- Smooth muscle
- Cardiac muscle



Question No. 7

Organelles that modifies products of the endoplasmic reticulum.....

- Ribosomes
- Golgi apparatus
- Endoplasmic reticulum
- Lysosomes

B

Question No. 29

Which tissue protects <sup>نحفي</sup> organs inside the body?

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- Neurons

Question No. 6

Organelle called the membranes factory of the cell?

- Smooth endoplasmic reticulum
- Lysosomes
- Golgi apparatus
- Rough endoplasmic reticulum



**Question No. 1**

Cellular drinking is called.....

- Exocytosis
- Phagocytosis
- All the answers are correct
- Pinocytosis

D

Question No. 25

Ligaments are ..... connective tissue

- Bone
- Loose
- Blood
- Fibrous

D

**Question No. 9**

Ink molecules spread in an available space by .....

- Osmosis
- Exocytosis
- Diffusion
- Active transport

C

next عقب التالي

**Question No. 29**

The tissues are higher levels than.....

- Organ systems
- Organs
- Organism
- Cells



**Question No. 23**

Nitrogenous bases are.....

- Parallel to the sugar-phosphate backbone
- All answers are correct
- Horizontal to the sugar-phosphate backbone
- perpendicular to the sugar-phosphate backbone

**D**

MKCL OES

**Question No. 19**

Which of these organisms carries out cellular respiration?

- Humans
- Plants
- Animals
- All answers are correct

4

**Question No. 18**

Most eukaryotic cells produce energy from glucose using

- Nitrogen
- Hydrogen
- Oxygen
- Carbon dioxide

45

**Question No. 4**

Which structure is not found in plant cells?

- Chloroplasts
- Central vacuole
- Centriole
- Cell wall

C



**Question No. 3**

Which structure is present only in plant cells?

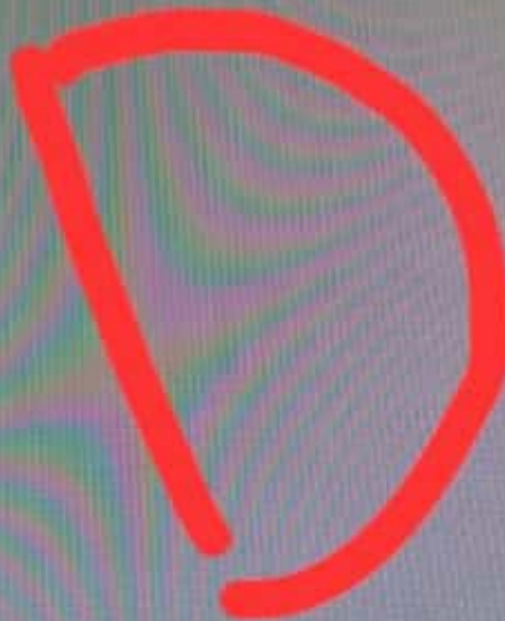
- Cell wall
- lysosomes
- all answers are correct
- Centrioles

A

**Question No. 11**

Tails in the membrane phospholipid's bilayer are.....

- Hydrophilic
- Hydrocellular
- Hydrolysis
- Hydrophobic



**Question No. 7**

..... are the main component of the plasma membrane.

- Protein
- Phospholipids
- Carbohydrates
- Nucleic Acids

B

**Question No. 1**

The transport mechanism which maintains equilibrium is.....

- All of these
- Osmosis
- Passive Transport
- Diffusion

✓ A!

**Question No. 6**

Plant cell wall mainly consists of.....

- Nucleic acid
- Starch
- Cellulose
- Collagen

C

**Question No. 8**

The membranes factory of the cell is.....

- Lysosome
- Rough ER
- Ribosomes
- Smooth ER

B

**Question No. 7**

The organelle that accounts for more than half of total cell's membranes is.....

- A Plasma membrane
- B Golgi apparatus
- C Endoplasmic reticulum
- D Lysosomes

C

Question No. 2

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

- Endoplasmic reticulum
- Chloroplast
- Lysosome
- Mitochondria

D



**Question No. 10**

Movement of solute with/down concentration gradient is.....

- Endocytosis
- passive transport
- Osmosis
- Active transport

**B**

Question No. 4

Microscopes which can magnify cell organelles clearly are called \_\_\_\_\_.

- All answers are correct
- Dissecting microscopes
- Transmission electron microscopes
- Light microscopes

C

Save & Next

**Question No. 9**

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

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

**B**

Question No. 2

Aquaporins are.....

- Polysaccharides
- Enzymes
- Transport proteins
- Fatty acids

C

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**Question No. 2**

Types of endocytosis are .....

- Pinocytosis
- All answers are correct
- Phagocytosis
- Receptor-mediated endocytosis

B

**Question No. 2**

Aquaporins are.....

- Enzymes
- Transport proteins
- Polysaccharides
- Fatty acids

**B**

Question No. 3

Plant cells have \_\_\_\_\_ but animal cells have not.

- Lysosomes
- Chloroplasts
- Centrioles
- Cell membrane

B

Exocytosis is a mechanism used by the cell to .....

- Controls protein pumps
- Export molecules out of the cell
- Maintains equilibrium
- Import molecules to the cell

B



## Question No. 1

Facilitated diffusion is a type of.....

- Active transport
- Endocytosis
- Passive Transport
- Exocytosis

C

**Question No. 19**

Oxidation is the \_\_\_\_\_, and reduction is the \_\_\_\_\_.

- Loss of carbon . . . . Gain of carbon
- Gain of carbon . . . . Loss of carbon
- Loss of electrons . . . . Gain of electrons
- Gain of electrons . . . . Loss of electrons

C

**Question No. 3**

Which structure is present only in plant cells?

- Cell wall
- lysosomes
- all answers are correct
- Centrioles

A

**Question No. 5**

Ribosomes that are suspended in the cytoplasm are called.....

- Free ribosomes
- Bound ribosomes
- Bound and free ribosomes
- None of these

A

Question No. 8

Organelle that detoxifies poisons is.....

- A Lysosome
- B Smooth ER
- C Rough ER
- D Golgi apparatus

B

Save & Next حفظ و التالي

Question No. 5

Plant cell wall mainly consists of.....

- Cellulose
- Nucleic acid
- Starch
- Collagen

A

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Question No. 5

Extracellular matrix (ECM) function is to .....

- Convert solar energy into chemical energy
- Hold cells together and protect the plasma membrane
- maintain the shape of plant cell
- produce protiens

B

Save & Next

**Question No. 14**

Most of the green color in plants is due to .....

- Chlorophyll
- Xanthophyll
- Anthocyanine
- Carotenoid

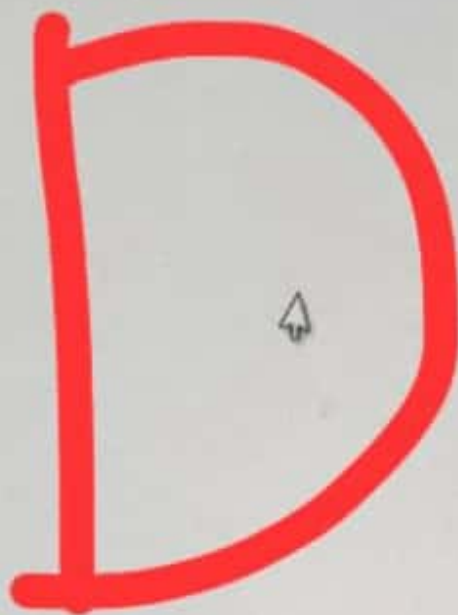
A



Question No. 7

..... IS NOT a component of the endomembrane system.

- Lysosome
- Golgi apparatus
- Plasma membrane
- Chloroplast



Diffusion includes the movement of particles from an area of \_\_\_\_\_ to an area of \_\_\_\_\_

- High concentration, high concentraion
- High concentration, low concentration
- Low concentration, low concentration
- Low concentration , high concentration

B

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

- Active transport
- Osmosis
- Passive transport
- Diffusion

A

**Question No. 17**

How many stages in photosynthesis process?

- Four stages
- Three stages
- Two stages
- One stage

C

**Question No. 1**

Aquaporins helps in.....

- Facilitated diffusion of water
- Exocytosis
- Pinocytosis
- Phagocytosis

**A**

Question No. 4

Which structure is not found in plant cells?

- Centriole
- Chloroplasts
- Cell wall
- Central vacuole

A

**Question No. 8**

Chloroplasts are responsible for.....

- Recycling
- Digesting
- Photosynthesis
- Cellular respiration

C

\_\_\_\_\_ is the name of the plant tissue where the highest number of chloroplasts could be found.

- Nanophyll
- Megaphyll
- Mesophyll
- Microphyll





**Question No. 13**

Adenosine Tri-phosphate (ATP) is .....

- A molecule with high energy
- A hormone
- A protein
- An enzyme

A

Movement of molecules against concentration gradient is called.....

- Diffusion
- Osmosis
- Active transport
- Passive transport

C

**Question No. 5**

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

- Lysosomes
- Chloroplast
- Golgi apparatus
- Nucleus

A

Question No. 3

Which of these are found in animal cell but NOT in plant cell?

- Nucleus and ribosomes
- Lysosomes and centrioles
- Chloroplasts and lysosomes
- Centrioles and DNA

B

Question No. 10

All of the following are transported by exocytosis and endocytosis except for \_\_\_\_\_

- gases (such as Oxygen)
- Complex sugars
- Lipids
- proteins

A

**Question No. 7**

..... are the main component of the plasma membrane.....

- Carbohydrates
- Phospholipids
- Nucleic Acids
- Protein

**B**

Question No. 12

The heads in cell membrane phospholipids bilayer are .....

- Monophilic
- Hydrolytic
- Hydrophobic
- Hydrophilic



**Question No. 4**

Cells of plants and animals have .....

- Cell membrane and cell wall
- Cytoplasm and chloroplasts
- Nucleus and ribosomes
- Central vacuole and mitochondria

C



**Question No. 6**

One of smooth endoplasmic reticulum functions

- Lipids synthesis
- Making membranes
- Protein synthesis
- None of Them

A

**Question No. 2**

Osmosis means.....

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

✓ A?

Which one of the following is true?

- Cellular respiration occurs in mitochondria and in chloroplasts.
- Photosynthesis occurs in mitochondria
- Cellular respiration occurs in mitochondria
- Photosynthesis occurs in mitochondria and in chloroplasts

C

**Question No. 15**

Chloroplast is.....

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

**A**

Question No. 18

Light-independent reactions in photosynthesis.....

- All answers are correct
- Need ATP and electrons
- Occurs in the stroma
- Do not require light

A

**Question No. 6**

One of smooth endoplasmic reticulum functions

- Protein synthesis
- None of Them
- Lipids synthesis
- Making membranes



C

Question No. 8

Both flagella and cilia are composed of.....

- Microtubules
- Monotubules
- Macrotubules
- Microfilaments

A

*Animal cell membrane fluidity is due to the.....*

- Carbohydrates
- Phospholipids
- Cholestrol
- Glucose

C?



Question No. 12

Which of these require facilitated diffusion to move through the plasma membrane?

- Water
- Complex sugars
- Proteins
- Fatty acids

A

**Question No. 10**

Which of the followings is a function for membrane proteins

- As enzymes
- Signaling
- Transport
- All answers are correct

D

Question No. 9

Which one of the following is NOT an organelle?

- DNA
- Lysosome
- Mitochondria
- Golgi apparatus

A

## Question No. 14

Which of these is NOT correct about photosynthesis?

- Produce oxygen gas
- Uses light energy
- Produce carbon dioxide gas
- Occurs within the chloroplast

C

Question No. 17

The oxygen produced in photosynthesis comes from a stage called.....

- Calvin cycle
- Glycolysis
- Citric acid cycle
- Light reactions

D

## Question No. 16

The source of oxygen released in photosynthesis is .....

- Glucose
- Pyruvate
- Water
- Carbon dioxide

C

Question No. 22

Pyruvate is .....

- End product of oxidative phosphorylation
- End product of citric acid cycle
- Molecule that starts citric acid cycle
- A six-carbon molecule.

C

## Question No. 23

After cellular respiration, muscle cells will have .....

- More  $O_2$
- More glucose
- Less  $CO_2$
- More  $CO_2$

D



Question No. 24

In alcohol fermentation, the main product is .....

- Ethanol
- Lactic acid
- Glucose
- Oxygen

A



**Question No. 21**

The first stage in cellular respiration is .....

- Breaking down glucose
- The use of oxygen
- Transporting electrons
- Breaking down pyruvate

A

Question No. 20

Redox process in cellular respiration include ..... reactions

- Oxidation and Dehydration
- Reduction and Oxidation
- Hydrolysis and Oxidation
- Reduction and Hydrolysis

B



Question No. 15

The connected sacs inside the chloroplast are called.....

- Outer membrane
- Thylakoids
- Stroma
- Inner membrane

B

Question No. 13

Which of the followings is a common waste product between car and cell?

- Glucose
- Gasoline
- Carbon dioxide
- Oxygen



C

Question No. 25

The term anaerobic means .....

- Without  $\text{CO}_2$
- Without  $\text{O}_2$
- With  $\text{O}_2$
- Without ATP

B

Question No. 27

15-nucleotide sequence تسلسل النيوكلينيات will give a protein with .....

- 3 amino acids
- 7 amino acids
- 5 amino acids
- 2 amino acids



Question No. 3

..... magnifies an image of a specimen by passing light through it.

- Transmission electron microscope
- Naked eyes
- Light microscope
- Scanning electron microscope

C

Save & Next



Question No. 15

Chloroplasts

- Absorbs light in photosynthesis
- Move complex sugars through the cell membrane
- Control cellular activities
- Store water

✓ A?

Question No. 12

ATP molecules are needed in the transport of .....

- Oxygen
- Water
- Molecules from areas of lower concentration to areas of higher concentration
- Carbon dioxide

Cv

Save & Next حفظ و التالي

**Question No. 19**

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

- cell membrane
- Nucleus
- Golgi bodies
- Mitochondria

D

Question No. 10

Bio\_C

All of the following are transported by exocytosis and endocytosis except for \_\_\_\_\_

- Complex sugars
- Proteins
- Lipids
- gases (such as Oxygen)



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DELL

**Question No. 10**

The plasma Membranes are composed mainly/largely of \_\_\_\_\_

- Triglycerides
- Steroids
- Phospholipids
- Carbohydrates



C

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Question No. 21

Which of the following occurs outside the mitochondria?

- Glycolysis
- All answers are correct
- Electron transport chain
- Krebs cycle

A

**Question No. 22**

Glucose converts into two pyruvate molecules in the .....

- Inner mitochondrial membrane
- Cytoplasm
- Nucleus
- Mitochondrial matrix

**B**

Question No. 23

Stages of aerobic respiration inside mitochondria are

- Five Stages
- Two Stages
- Four Stages
- Three Stages

B



**Question No. 7**

The organelle that accounts for more than half of total cell's membranes is.....

- A Plasma membrane
- B Golgi apparatus
- C Endoplasmic reticulum
- D Lysosomes

C

Question No. 22

Among outputs of oxidative phosphorylation is.....

- Water
- Oxygen
- 2 ATP molecules
- Glucose

A

Save & Next

**Question No. 24**

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

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

A

**Question No. 2**

Osmosis means.....

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

✓ A?

All of the following about Mitochondria is correct except .....

- They carry out cellular respiration
- They are found only in animal cells
- They are part of endomembrane system
- They contain DNA

B

**Question No. 6**

The primary structure of the protein results from.....

- An interaction between the R groups of various amino acids
- All answers are correct
- A unique amino acid sequence
- The folding and coiling of the polypeptide

Save & Next حفظ والتالي

**Question No. 9**

Ink molecules spread in an available space by .....

- Osmosis
- Exocytosis
- Diffusion
- Active transport



next التالي

**Question No. 17**

Which one of the following is true?

- Cellular respiration occurs in mitochondria and in chloroplasts.
- Photosynthesis occurs in mitochondria and in chloroplasts
- Cellular respiration occurs in mitochondria
- Photosynthesis occurs in mitochondria





Question No. 29

Which tissue protects <sup>نحفي</sup> organs inside the body?

- Epithelial tissues
- Muscular tissues
- All answers are correct
- Neurons

A

Question No. 8

Membranes may fold inward enclosing material from the outside by a process called.....

- Exocytosis
- Passive transport
- Diffusion
- Pinocytosis



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Question No. 7

Organelles that modifies products of the endoplasmic reticulum.....

- Ribosomes
- Golgi apparatus
- Endoplasmic reticulum
- Lysosomes

B

Question No. 8

In a plant cell, DNA may be found in the.....

- Cytoplasm, mitochondria, and nucleus
- Cell wall, nucleus, and mitochondria
- Nucleus, mitochondria, and chloroplasts
- Central vacuole, chloroplast, and mitochondria

Next التالي

**Question No. 21**

Aerobic respiration.....

- Does not occur in plant cells
- Does not occur in animal cells
- Occurs in cells of plants, animals and yeast
- Does not occur in yeast cells

Question No. 10

..... blocks enzyme substrate from entering the active site.

- Sharing inhibitor
- Competitive inhibitor
- Non-sharing inhibitor
- Non-competitive inhibitor

B

Question No. 19

Adenine and Guanine are \_\_\_\_\_

- Triple-ring structure and called purines
- Double-ring structure and called purines
- Triple-ring structure and called pyrimidines
- Single-ring structure and called pyrimidines

B

2

Question No. 36

The digestive tract has two openings .....and.....

- Stomach - Small intestine
- Nose - Anus
- Mouth - Anus
- Mouth - Anus



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Question No. 26

The largest organ of the human body is the .....

- Mouth
- Skin
- Stomach
- Heart

B

Question No. 30

Which muscle is found in the walls of the digestive canal ?

- Skeletal muscle
- All answers are correct
- Smooth muscle
- Cardiac muscle

C

Question No. 19

One of the functions of DNA is to .....

- Make copy of mRNA
- Translate information on RNA
- Join amino acids together
- lipid synthesis

A?

Question No. 40

What organ system of the body includes the heart?

- Nervous
- Respiratory
- Cardiovascular
- Endocrine



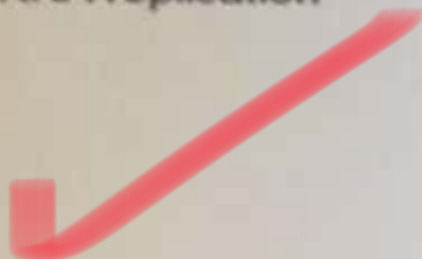
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Question No. 27

DNA polymerase function is.....

- Joining small fragments of DNA strands
- Joining small fragments of RNA strands
- Corrects improper base pairings in DNA replication
- Involved in RNA replication

C?



Question No. 14

What are the inputs in the equation of cellular respiration?

- Glucose and oxygen
- Water and glucose
- Carbon dioxide and water
- Oxygen and water

A

## Question No. 37

Undigested food is expelled through .....

- Anus
- Skin
- Mouth
- Liver

12

A

Question No. 7

Organelle that involved in recycling damaged organelles is \_\_\_\_\_

- Ribosomes
- Lysosome
- Central vacuole
- Cell membrane

B



Question No. 25

Ligaments are ..... connective tissue

- Bone
- Loose
- Blood
- Fibrous

D

Question No. 21

Nucleotides are linked together through covalent bonding between.....

- Nitrogenous base – phosphate
- Nitrogenous base – sugar
- Two sugars
- Sugar – Phosphate

D

**Question No. 30**

Which of the following are epithelial tissues?

- Neurons - Blood
- Cardiac - Skeletal
- Bone - Cartilage
- Cuboidal - Columnar



Which of the following is not a type of vessel?

- Atrium
- Artery
- vein
- Capillary

A

Question No. 36

Salivary enzymes are responsible for.....

- Hydrolysis of starch
- Digestion of fat
- Digestion of nucleic acids
- Digestion of proteins

A

Question No. 7

Organelles that modifies products of the endoplasmic reticulum.....

- Ribosomes
- Golgi apparatus
- Endoplasmic reticulum
- Lysosomes

B

**Question No. 10**

Builds up a complex molecule is called.....

- Metabolism
- Catabolism
- Nanobolism
- Anabolism

D

Question No. 23

Simply, transcription is copying .....

- Proteins from DNA
- Proteins from mRNA
- mRNA from DNA
- mRNA from proteins

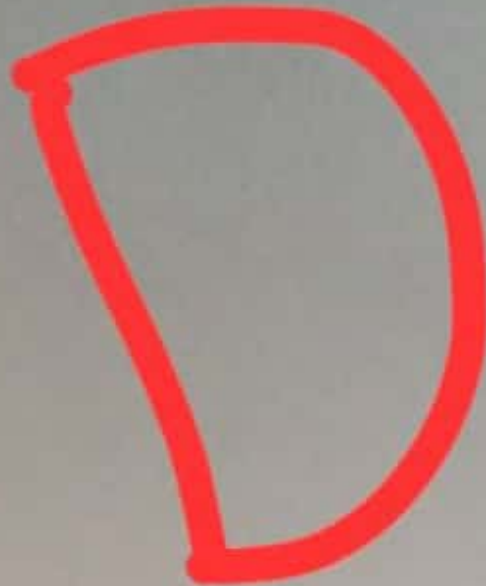
✓ C?



Question No. 17

Number of stages in anaerobic respiration is .....

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



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Question No. 10

..... is considered coenzyme.

- Copper
- Lead
- Zinc
- Vitamin



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Question No. 24

DNA ligase facilitates.....

- Adding nucleotides to new DNA chain
- Joining of short RNA strands together
- Adding nucleotides to new RNA chain
- Joining of long DNA strands together



Question No. 22

Glucose converts into two pyruvate molecules in the \_\_\_\_\_.

- Inner mitochondrial membrane
- Cytoplasm
- Nucleus
- Mitochondrial matrix

B

Question No. 24

After DNA replication, each new DNA will contain .....

- 75% of the parent DNA
- 100% of the parent DNA
- 50% of the parent DNA
- 25% of the parent DNA

C

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# Question No. 1

---

Aquaporins are.....

- Enzymes
- Fatty acids
- Polysaccharides
- Transport proteins

**Question No. 4**

The transport mechanism which maintains equilibrium is.....

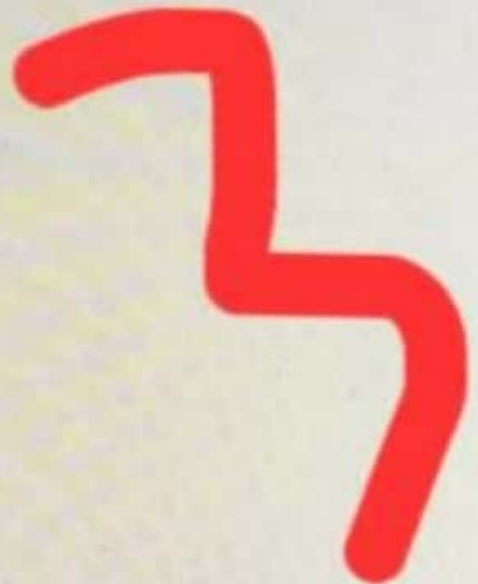
- All of these
- Osmosis
- Diffusion
- Passive Transport

1

A

The tissue lining the small intestine is called.....

- Simple cuboidal epithelium
- Stratified squamous epithelium
- Simple columnar epithelium
- Pseudo-stratified epithelium





Question No. 4

Which structure is not found in plant cells?

- Central vacuole
- Centriole
- Chloroplasts
- Cell wall

B

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Question No. 4

Cells of plants and animals have \_\_\_\_\_

- A Cell membrane and cell wall
- B Nucleus and ribosomes
- C Central vacuole and mitochondria
- D Cytoplasm and chloroplasts

B

## Question No. 2

The process by which large molecules exit from the cell is \_\_\_\_\_ and enter the cell is \_\_\_\_\_

- Endocytosis - Exocytosis
- Exocytosis - Endocytosis
- Osmosis - Diffusion
- Diffusion - Osmosis

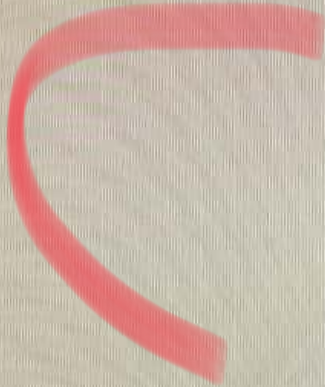
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### Question No. 2

Which structure helps the animal cell in active transport?

- Central vacuole
- Chloroplast
- Mitochondria
- Cell membrane



**Question No. 1**

When a certain vesicle fuses with the cell membrane and export its contents outside of the cell, this is called \_\_\_\_\_

- Osmosis
- Facilitated diffusion
- Exocytosis
- Endocytosis



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**Question No. 3**

Animal cells have..... but plant cells have not.

- Cell membrane
- Nucleus
- Lysosomes
- Cell wall



**Question No. 17**

Carbon dioxide, ATP and electrons

- Are inputs to Calvin cycle
- Play a role in glucose breakdown
- Are inputs of light reactions
- Are products of the Calvin cycle

A

**Question No. 1**

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

- Endoplasmic reticulum
- Chloroplast
- Mitochondria
- Lysosome





**Question No. 1**

Cells import fluids by.....

- Phagocytosis
- Pinocytosis
- None of these
- Exocytosis

B

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**Question No. 22**

**Which substance is generated by fermentation?**

- Lactate
- Water
- O<sub>2</sub>
- Glucose

A

Question No. 15

Chloroplasts

- Absorbs light in photosynthesis
- Move complex sugars through the cell membrane
- Control cellular activities
- Store water

✓ A?

Question No. 2

Membranes may fold inward enclosing material from the outside by a process called .....

- Passive transport
- Diffusion
- Exocytosis
- Pinocytosis



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Plants differ from animals, only plant cell has .....

- Nucleus
- Endoplasmic reticulum
- Mitochondria
- Cell wall



**Question No. 4**

Which of the following organelles can not be observed with the light microscope?

- Lysosomes
- Ribosomes
- All answers are correct
- Golgi bodies

C

Question No. 2

Membranes may fold inward enclosing material from the outside by a process called .....

- Passive transport
- Diffusion
- Exocytosis
- Pinocytosis



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The \_\_\_\_\_ stores food, water, an waste inside the cell

- Cytoplasm
- Lysosomes
- Centriole
- Central vacuole





**Question No. 7**

The extracellular matrix in animal cells is mainly made of.....

- Nucleic acids
- Cellulose
- Starch
- Collagen fibers

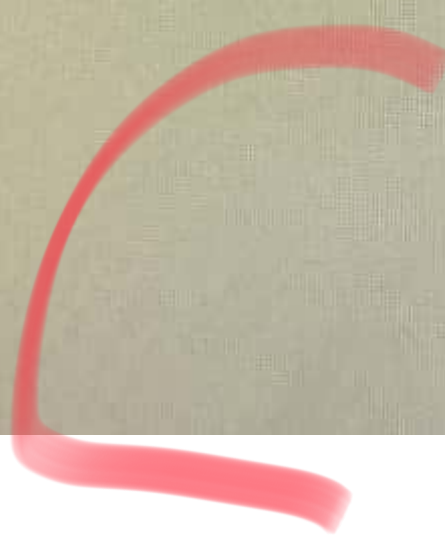


## Question No. 8

---

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

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



### Question No. 6

----- is a function of rough endoplasmic reticulum

- Stores calcium
- Distribution of proteins
- Metabolizes carbohydrates
- Synthesis of lipids

B

**Question No. 10**

Which of the followings is a common waste product between car and cell?

- Gasoline
- Carbon dioxide
- Oxygen
- Glucose

B

**Question No. 3**

Animal cells have ..... but plant cells have not.

- Cell membrane
- Cell wall
- Nucleus
- Lysosomes

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**Question No. 5**

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

- Nucleus
- Lysosomes
- Chloroplast
- Golgi apparatus

B

Question No. 8

Which structure is called "the membrane factory of the cell"?

- Rough endoplasmic reticulum
- Smooth endoplasmic reticulum
- Lysosomes
- Golgi apparatus

A

Question No. 39

What organ system of the body includes the heart?

- Nervous
- Cardiovascular
- Endocrine
- Respiratory

B



**Question No. 40**

The human heart has:

- Two atria and two ventricles
- One atrium and one ventricle
- Two atria and one ventricle
- One atrium and two ventricles

A

**Question No. 41**

Inhalation means \_\_\_\_\_

- Break food
- Breath out
- Move food
- Breath in



Question No. 4

Cells of plants and animals have .....

- Cell membrane and cell wall
- Cytoplasm and chloroplasts
- Nucleus and ribosomes
- Central vacuole and mitochondria

Save & Next

Question No. 42

Air is drawn into the respiratory tract during...

- Inhalation and exhalation
- Exhalation
- All answers are correct
- Inhalation

**Question No. 7**

The function of a cell wall is.....

- To help the cell in reproduction
- To help in cell movement
- To help the cell during respiration
- To maintains the cell shape

**Question No. 5**

.....are the sites of protein synthesis

- Mitochondria
- Ribosomes
- Lysosomes
- Golgi apparatus

### Question No. 9

---

The plasma membrane surface appears mosaic due to.....

- Proteins embedded into phospholipids
- Carbohydrates movement
- Proteins movement
- Cholestrol is wedged into phospholipid

## Question No. 28

Organs are functionally coordinated in

- Cells
- Organ systems
- Organs
- Tissues

I



**Question No. 12**

The sugar produced in photosynthesis comes from a stage called.....

- Glycolysis
- Calvin cycle
- Citric acid cycle
- Light reactions

What are the inputs in the equation of cellular respiration?

- Water and glucose
- Oxygen and water
- Glucose and oxygen
- Carbon dioxide and water



### Question No. 13

---

The fuel usually used in cellular respiration is .....

- Galactose
- Fructose
- Chitin
- Glucose

Most eukaryotic cells produce energy from glucose using ....

- Nitrogen
- Hydrogen
- Oxygen
- Carbon dioxide

I

Question No. 12

Which of these require facilitated diffusion to move through the plasma membrane?

- Water
- Fatty acids
- Complex sugars
- Proteins

Save & Next حفظ و التالي

Question No. 14

What are the inputs in the equation of cellular respiration?

- Glucose and oxygen
- Water and glucose
- Carbon dioxide and water
- Oxygen and water

Save & Next حفظ والتالي

Question No. 33

Salivary enzymes are responsible for.....

- Hydrolysis of starch
- Digestion of nucleic acids
- Digestion of fat
- Digestion of proteins

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**Question No. 41**

Inhalation means \_\_\_\_\_

- Break food
- Breath out
- Move food
- Breath in



### Question No. 15

---

Which of the following is a result of glycolysis?

- Production of oxygen
- Loss of 6 ATP per glucose molecule
- Change of glucose to two three-carbon compounds
- Gain of 28 ATP per glucose molecule

Question No. 14

During aerobic respiration,  $FADH_2$  is produced in .....

- Glycolysis
- Fermentation
- Krebs cycle
- Electron transport chain

### Question No. 16

---

Breathing and respiration are closely related because .....

- Both build sugars
- Both take up  $O_2$  and release  $CO_2$
- Both takes up sugars
- Both take up  $CO_2$  and release  $O_2$

**Question No. 17**

---

Which substance is generated by fermentation?

- Glucose
- Lactate
- Water
- O<sub>2</sub>

**Question No. 20**

During cellular respiration, the glucose is used to.....

- All answers are correct
- Release oxygen atoms
- Produce high energy molecules
- Manufacture a new glucose molecule

A

**Question No. 19**

One of the functions of DNA is to .....

- Make copy of mRNA
- Translate information on RNA
- Join amino acids together
- lipid synthesis

**Question No. 6**

The primary structure of the protein results from.....

- An interaction between the R groups of various amino acids
- All answers are correct
- A unique amino acid sequence
- The folding and coiling of the polypeptide

Question No. 43

What connects the pharynx to lungs ?

- Trachea
- Nasal cavity
- Esophagus
- Tongue

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Question No. 24

Which of the following is involved in protein synthesis?

- DNA
- t-RNA
- All answers are correct
- m-RNA

The \_\_\_\_\_ stores food, water, an waste inside the cell

- Cytoplasm
- Lysosomes
- Centriole
- Central vacuole

D

Question No. 42

Air is drawn into the respiratory tract during.

- Inhalation and exhalation
- Exhalation
- All answers are correct
- Inhalation

D

Question No. 10

\_\_\_\_\_ is the immediate source of energy that powers most forms of cellular work

- Glucose
- ADP
- Glycogen
- ATP

D

Save & Next >

Question No. 6

Which structure is called "the membrane factory of the cell"?

- Rough endoplasmic reticulum
- Smooth endoplasmic reticulum
- Lysosomes
- Golgi apparatus

A

Which microscope shows 3D image for cell surface?

- Transmission electron microscope (TEM)
- Scanning electron microscope (SEM)
- Light microscope
- All answers are correct

B

Question No. 14

During aerobic respiration,  $\text{FADH}_2$  is produced in .....

- Glycolysis
- Fermentation
- Krebs cycle
- Electron transport chain

**Question No. 7**

The function of a cell wall is.....

- To help the cell in reproduction
- To help in cell movement
- To help the cell during respiration
- To maintains the cell shape

**D**



Question No. 5

.....are the sites of protein synthesis

- Mitochondria
- Ribosomes
- Lysosomes
- Golgi apparatus

B

The \_\_\_\_\_ stores food, water, an waste inside the cell

- Cytoplasm
- Lysosomes
- Centriole
- Central vacuole

D

**Question No. 39**

What organ system of the body includes the heart?

- Nervous
- Cardiovascular
- Endocrine
- Respiratory

**B**

Question No. 8

All of the following about chloroplasts are correct except.....

- They have double membrane
- They are photosynthetic organelles
- They contain chlorophyll
- They are found in plant and animal cells

D

Question No. 1

Cellular drinking is called.....

- Pinocytosis
- Exocytosis
- Phagocytosis
- All the answers are correct

A

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**Question No. 41**

Inhalation means \_\_\_\_\_

- Break food
- Breath out
- Move food
- Breath in

D

Question No. 3

Animal and plant cells are.....

- Eukaryotic
- Hydrolytic
- Hydrophobic
- Prokaryotic

A

**Question No. 7**

Chloroplast and mitochondria are enclosed by

- Single membrane
- Three layered membrane
- Double membrane
- Four layered membrane





Question No. 3

Animal and plant cells are.....

- Eukaryotic
- Hydrolytic
- Hydrophobic
- Prokaryotic

A

MKCL  
Question No. 42

Air is drawn into the respiratory tract during.

- Inhalation and exhalation
- Exhalation
- All answers are correct
- Inhalation

D

**Question No. 40**

---

The human heart has:

- Two atria and two ventricles
- One atrium and one ventricle
- Two atria and one ventricle
- One atrium and two ventricles

**A**

Question No. 8

Which one of the following is NOT an organelle?

- DNA
- Mitochondria
- Golgi apparatus
- Lysosome

A

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Question No. 9

Ink molecules spread in an available space by .....

- Exocytosis
- Active transport
- Osmosis
- Diffusion

D

Save & Next حفظ واقتلي

Question No. 10

\_\_\_\_\_ is the immediate source of energy that powers most forms of cellular work.

- Glucose
- ADP
- Glycogen
- ATP

D

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**Question No. 7**

Flagella motion can be described as.....

- Slow, wave-like
- Fast, rotational
- Fast, motor-like
- Slow, rotational

**A**

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Which microscope shows 3D image for cell surface?

- Transmission electron microscope (TEM)
- Scanning electron microscope (SEM)
- Light microscope
- All answers are correct

B



Question No. 6

The function of \_\_\_\_\_ is to modify, receive & pack materials into transport vesicles

- Golgi apparatus
- Lysosomes
- Chloroplast
- Nucleus

A


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**Question No. 1**

When a certain vesicle fuses with the cell membrane and export its contents outside of the cell, this is called \_\_\_\_\_

- Osmosis
- Facilitated diffusion
- Exocytosis
- Endocytosis

C

Save & Next 

Question No. 4

Which of the following organelles can not be observed with the light microscope?

- Golgi bodies
- Ribosomes
- All answers are correct
- Lysosomes

C

Question No. 7

Chloroplast and mitochondria are enclosed by .....

- Single membrane
- Three layered membrane
- Double membrane
- Four layered membrane

C

Question No. 4

Cells of plants and animals have \_\_\_\_\_

- Cell membrane and cell wall
- Nucleus and ribosomes
- Central vacuole and mitochondria
- Cytoplasm and chloroplasts

B

Save & Next

## Question No. 2

The process by which large molecules exit from the cell is \_\_\_\_\_ and enter the cell is \_\_\_\_\_

- Endocytosis - Exocytosis
- Exocytosis - Endocytosis
- Osmosis - Diffusion
- Diffusion - Osmosis

B

Save & Next

**Question No. 3**

Animal cells have..... but plant cells have not.

- Cell membrane
- Nucleus
- Lysosomes
- Cell wall

C

Save & Next حفظ و التالي

**Question No. 10**

Stores food, water, an waste inside cell....

- Centriole
- Cytoplasm
- Lysosomes
- Central vacuole





Question No. 39

What is the function of the blood vessels and capillaries?

- They carry blood to all parts of the body
- They pump blood to the heart only
- They filter impurities from the blood
- They carry messages from the brain to the muscles

2  
a

Question No. 26

The largest organ of the human body is the .....

- Mouth
- Skin
- Stomach
- Heart

SC

Question No. 44

Part of carbon dioxide is transported in the blood as \_\_\_\_\_

- Bicarbonate
- Carbonic acid
- Carboxylic acids
- Water

**Question No. 13**

Which type of chlorophyll reflects green light?

- Chlorophyll a
- Chlorophyll b
- Carotenoid
- Chlorophyll a + b

A

Question No. 37

Earth worms exchange gases through \_\_\_\_\_

- Gills
- Lungs
- Tracheal system
- Outer skin



4

## Aerobic cellular respiration

- Produces glucose
- Produces ATP
- Produces oxygen
- All answers are correct

Question No. 24

Which of the following nucleic acids is a single strand

- All answers are correct
- r RNA
- t RNA
- m RNA

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**Question No. 19**

A nucleotide consists of .....

- All answers are correct
- Sugar
- Phosphate group
- Nitrogen base



**Question No. 21**

Nucleotides are linked together through covalent bonding between.....

- Nitrogenous base – phosphate
- Nitrogenous base – sugar
- Two sugars
- Sugar – Phosphate

### Question No. 20

---

Genes are .....

- Amino acids
- Pieces of DNA
- RNA and sugars
- Strands of RNA

**Question No. 22**

---

The DNA replication takes place in .....

- Cell membrane
- Cytoplasm
- Nucleus
- Ribosomes

**Question No. 3**

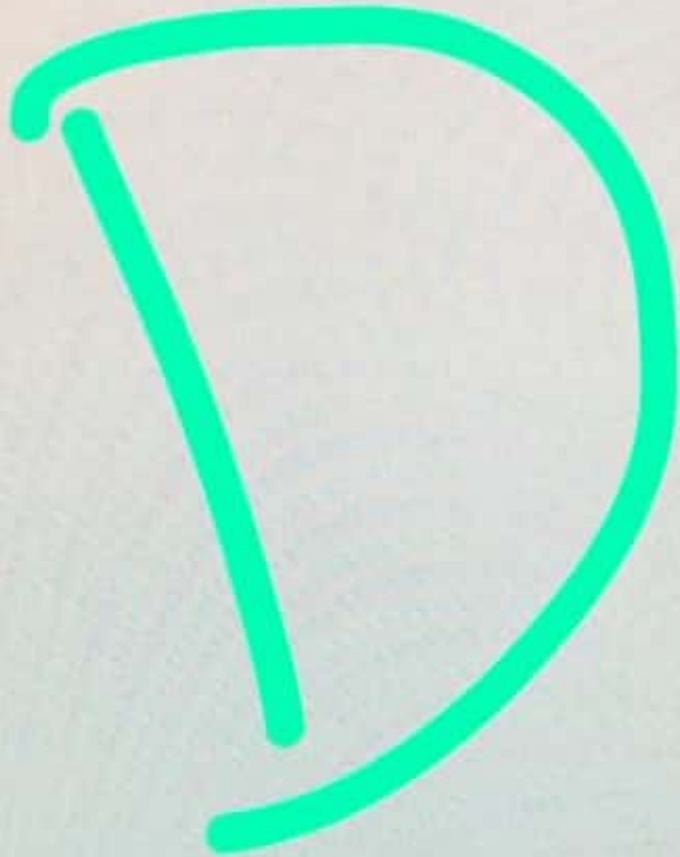
Animal and plant cells are.....

- Eukaryotic
- Hydrolytic
- Hydrophobic
- Prokaryotic

Question No. 39

When blood reaches lungs, \_\_\_\_\_ leaves the blood

- White blood cells
- Carbon dioxide
- Water
- Oxygen



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### Question No. 25

---

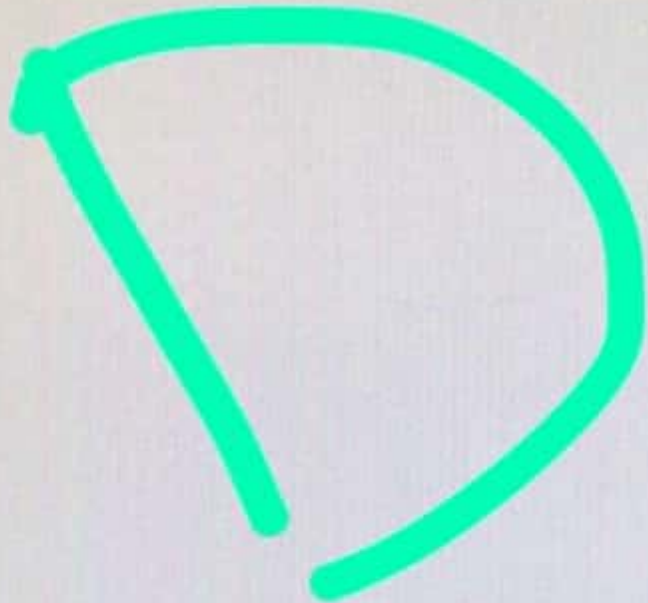
Connective tissue can be grouped into ....

- Four major types
- Six major types
- Three major types
- Five major types

Question No. 24

A 15-nucleotide sequence will direct the production of a polypeptide chain with up to .....

- 2 amino acids
- 3 amino acids
- 7 amino acids
- 5 amino acids



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**Question No. 44**

Which muscle contracts to allow breathing?

- Diaphragm
- Larynx
- Bronchi
- Pharynx

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Question No. 44

Which muscle contracts to allow breathing?

- Diaphragm
- Larynx
- Bronchi
- Pharynx

A

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Question No. 38

In the digestive tract - what comes after pharynx?

- Esophagus
- Mouth
- Small intestine
- Stomach

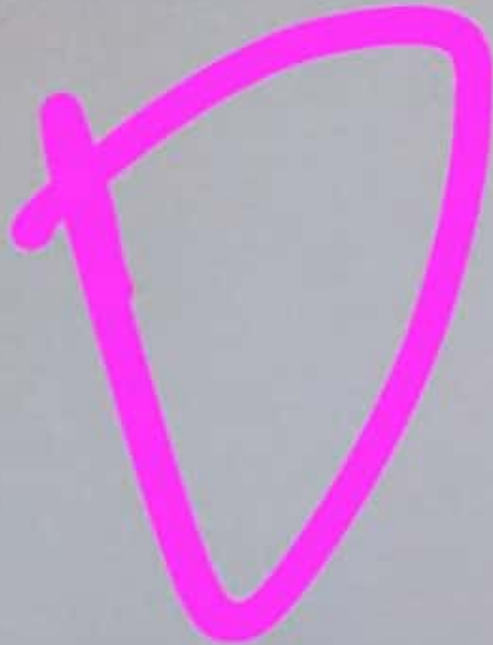
A

تالي التالي Next

**Question No. 21**

The RNA is a ..... while the DNA is a .....

- Double-stranded, single-strand
- Double-stranded, double helix
- Single-strand, single helix
- Single-strand, double helix



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**Question No. 18**

Which of the following is a possible anaerobic product?

- Fructose
- Oxygen
- Glucose
- Lactate

Question No. 36

Which process takes place in the esophagus?

- Peristalsis
- Digestion
- Absorption
- Ingestion

A

### Question No. 27

---

Muscles are divided into .....

- 8 types
- 3 types
- 6 types
- 5 types

**Question No. 26**

The tissues are higher levels than.....

- Organism
- Cells
- Organ systems
- Organs

Question No. 29

Ligaments are ..... connective tissue

- Fibrous
- Bone
- Blood
- Loose

A

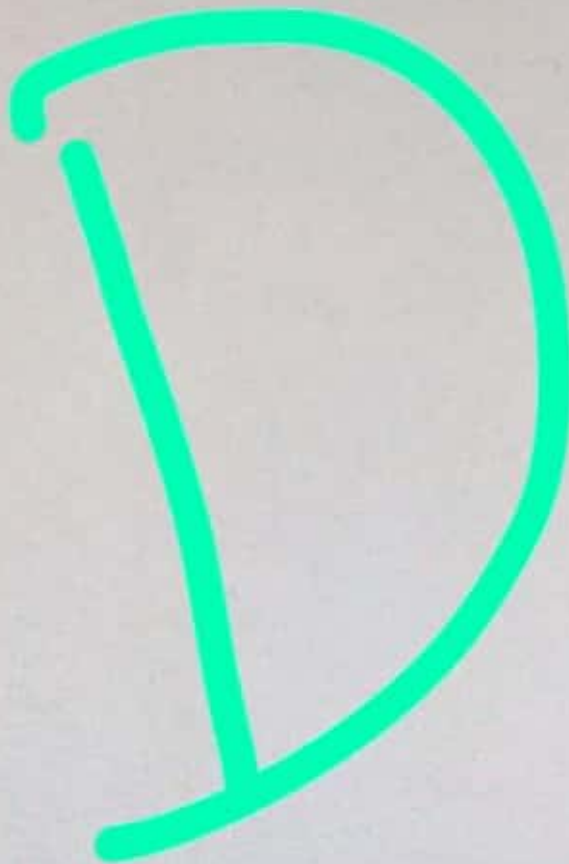
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Question No. 28

Muscles are divided into .....

- 6 types
- 5 types
- 8 types
- 3 types



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Question No. 38

In the digestive tract - what comes after pharynx?

- Esophagus
- Mouth
- Small intestine
- Stomach

A

تالي التالي Next

Question No. 44

Which muscle contracts to allow breathing?

- Diaphragm
- Larynx
- Bronchi
- Pharynx

A

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Question No. 36

Which process takes place in the esophagus?

- Peristalsis
- Digestion
- Absorption
- Ingestion

A

Question No. 31

Cartilage matrix is made of .....embedded in rubbery material.

- Collagen fibers
- Calcium salts
- Blood plasma
- Fat droplets

A

Question No. 31

Cartilage matrix is made of ..... embedded in rubbery material.

- Collagen fibers
- Calcium salts
- Blood plasma
- Fat droplets

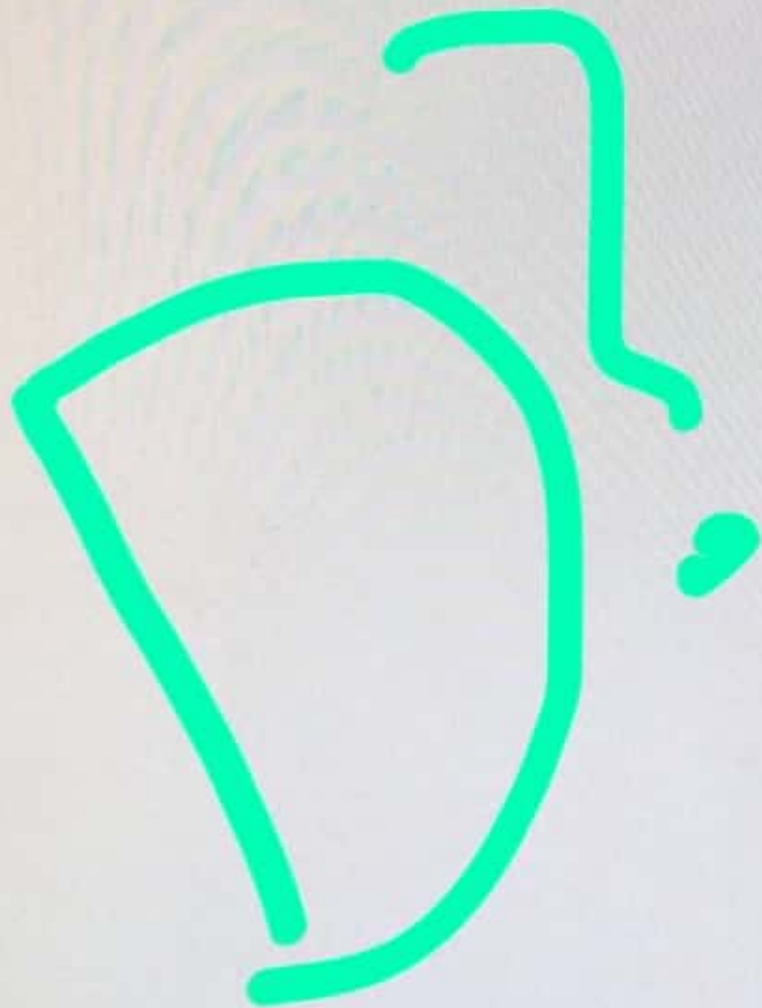
A

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**Question No. 37**

The breakdown of food by teeth is a phase of .....

- Absorption
- Digestion
- Elimination
- Ingestion



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**Question No. 28**

Cardiac muscles are only found in the .....

- Mouth
- Brain
- Stomach
- Heart



**Question No. 29**

---

Group of similar cells is called .....

- Organelles
- Organ
- Tissue
- Organ System

Question No. 38

Which of the following organs is CORRECTLY matched with its function?

- Stomach- Food elimination
- Large intestine - Chemical digestion
- Small intestine -Absorption
- Oral cavity- Peristalsis

C



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## Question No. 30

---

..... are tissues which cause voluntary movement

- All answers are correct
- Cardiac muscle
- Smooth muscle
- Skeletal muscle

**Question No. 31**

The heart is mostly made of muscle tissue. It has also \_\_\_\_\_ tissues

- All answers are correct
- Epithelial
- Nervous
- Connective

The \_\_\_\_\_ stores food, water, and waste inside the cell

- Cytoplasm
- Lysosomes
- Centriole
- Central vacuole

**Question No. 33**

---

The digestive tract starts with the .....

- Small intestine
- Nasal cavity
- Oral cavity
- Stomach

**Question No. 34**

Excess water-soluble vitamins can be eliminated in.....

- Urine
- Saliva
- Chyme
- Bile

**Question No. 32**

---

Humans are .....

- All answers are correct
- Herbivores
- Omnivores
- Carnivores



**Question No. 38**

---

Bile .....

- Help absorb fats
- Digest fats
- Prepare fats for digestion
- Build fat molecules

The first step of food processing is called .....

- Elimination
- Ingestion
- Absorption
- Digestion

### Question No. 36

---

Which tube connects the stomach to the pharynx?

- Large intestine
- Trachea
- Small intestine
- Esophagus

### Question No. 39

---

In most animals, the oxygen is transported by \_\_\_\_\_

- Carbon dioxide
- White blood cells
- water
- Hemoglobin

## Question No. 41

---

Which organ system does the pharynx belongs to?

- Nervous
- Digestive only
- Digestive and Respiratory
- Respiratory only

**Question No. 1**

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

- Endoplasmic reticulum
- Chloroplast
- Mitochondria
- Lysosome

**Question No. 43**

---

How many phases in the gas exchange process?

- Seven
- Two
- Four
- Three

**Question No. 22**

Genetic information flow as .....

- Protein  $\rightarrow$  RNA  $\rightarrow$  DNA
- DNA  $\rightarrow$  RNA  $\rightarrow$  Protein
- RNA  $\rightarrow$  DNA  $\rightarrow$  Protein
- DNA  $\rightarrow$  Protein  $\rightarrow$  RNA



Question No. 27

The tissue lining the small intestine is called

- Simple cuboidal epithelium
- Simple columnar epithelium
- Pseudo-stratified epithelium
- Stratified squamous epithelium

**Question No. 19**

Genes are \_\_\_\_\_

- Strands of RNA
- Amino acids
- Pieces of DNA
- RNA and sugars

## Question No. 45

---

When we swallow, epiglottis closes \_\_\_\_\_

- Bronchi
- Pharynx
- Trachea
- Larynx

**Question No. 23**

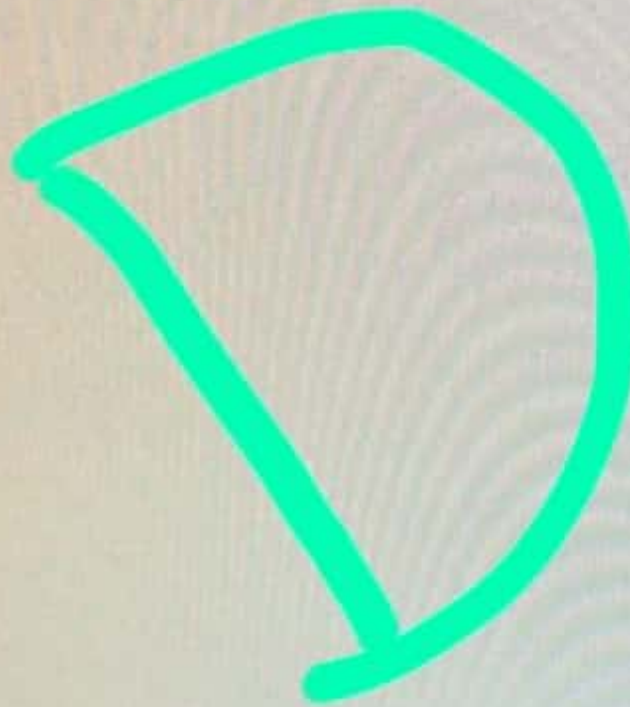
When a DNA replicates, .....result

- Five daughter DNA molecules
- One daughter DNA molecule
- Three daughter DNA molecules
- Two daughter DNA molecules

Question No. 38

In the digestive tract, the ..... absorbs H<sub>2</sub>O to give semi-solid waste

- Esophagus
- Small intestine
- Stomach
- Large intestine



Save & Next

An example of Epithelial tissue found in the human body is .....

- Skeletal muscle
- Skin
- Adipose
- Tendon

B!

Question No. 43

Air is drawn into the respiratory tract during.....

- Exhalation
- Inhalation
- All answers are correct
- Inhalation and exhalation



### Question No. 40

---

Air is drawn into the respiratory tract during.....

- All answers are correct
- Exhalation
- Inhalation and exhalation
- Inhalation



Question No. 39

Each Hemoglobin molecule can carry up to \_\_\_\_\_ O<sub>2</sub> atoms

- 4
- 10
- 2
- 6

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Question No. 43

The trachea is found in the \_\_\_\_\_ system

- Nervous
- Digestive
- Respiratory
- Circulatory

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**Question No. 37**

---

The salivary glands are found in.....

- Oral cavity
- Esophagus
- Small intestine
- Large intestine

**Question No. 44**

Which muscle contracts to allow breathing?

- Diaphragm
- Larynx
- Bronchi
- Pharynx

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Question No. 41

In the body tissues, blood

- drops off  $O_2$  and picks up  $N_2$
- drops off  $N_2$  and picks up  $CO_2$
- drops off  $O_2$  and picks up  $CO_2$
- drops off  $CO_2$  and picks up  $O_2$

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**Question No. 36**

Where the chyme is produced?

- Stomach
- Mouth
- Liver
- Pancreas

## Question No. 8

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

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

### Question No. 1

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

- Endoplasmic reticulum
- Chloroplast
- Mitochondria
- Lysosome



The extracellular matrix in animal cells is mainly made of.....

- Nucleic acids
- Cellulose
- Starch
- Collagen fibers

Question No. 44

In alveoli \_\_\_\_\_

- Blood takes up oxygen and drops off carbon dioxide
- Blood takes up carbon dioxide and drops off oxygen
- Blood mixes with hemoglobin
- Blood mixes gases

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MKCL OES

Question No. 43

What organ system of the body includes the heart?

- Cardiovascular
- Endocrine
- Respiratory
- Nervous

Question No. 45

Which muscle contracts to allow breathing?

- Larynx
- Bronchi
- Pharynx
- Diaphragm

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**Question No. 24**

A 15-nucleotide sequence will direct the production of a polypeptide chain with up to .....

- 7 amino acids
- 2 amino acids
- 5 amino acids
- 3 amino acids

**Question No. 34**

Which process takes place in the esophagus?

- Absorption
- Ingestion
- Digestion
- Peristalsis



A difference between DNA and RNA is.....

- DNA is nucleic acid but RNA is not
- DNA has the base Thymine but RNA has Uracil instead
- DNA is a single strand while RNA is a double helix
- DNA has a ribose sugar but RNA has a deoxyribose

Question No. 45

In lungs, gases are exchanged by \_\_\_\_\_

process

- Osmosis
- Osmosis and Diffusion
- Diffusion
- Neither osmosis nor diffusion



**Question No. 1**

Osmosis means.....

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

**Question No. 3**

Plants differ from animals, only plant cell has .....

- Nucleus
- Endoplasmic reticulum
- Mitochondria
- Cell wall

Question No. 34

Salivary enzymes are responsible for

- Digestion of fat
- Digestion of nucleic acids
- Digestion of proteins
- Hydrolysis of starch

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### Question No. 26

---

Ligaments are ..... connective tissue

- Blood
- Bone
- Fibrous
- Loose

## Question No. 2

---

Which structure helps the animal cell in active transport?

- Central vacuole
- Cell membrane
- Mitochondria
- Chloroplast

**Question No. 15**

Which of these statements is TRUE? Aerobic cellular respiration.....

- Breaks glucose
- Is a single chemical reaction with just one step
- Uses light
- Produces glucose

**Question No. 39**

Which organ system does the pharynx belong to?

- Nervous
- Respiratory only
- Digestive and Respiratory
- Digestive only

**Question No. 38**

In the small intestine.....

- Food is digested and absorbed
- Water is absorbed from un-digested food
- Wastes are expelled
- Food is chewed



**Question No. 40**

Which type of blood vessels carries blood away from the heart?

- Arteries
- b & c
- Veins
- Capillaries

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**Question No. 24**

The sugar ribose has.....

- Two more oxygen than deoxyribose
- one less oxygen than deoxyribose
- Two less oxygen than deoxyribose
- one more oxygen than deoxyribose

**Question No. 23**

DNA is transcribed into RNA by using.....

- Fatty acid language
- amino acid language
- Monosaccharide language
- nucleotide language

**Question No. 16**

Stages of aerobic respiration in cells include.....

- Light reactions, Oxidative phosphorylation
- Glycolysis, Krebs cycle, Oxidative phosphorylation
- Glycolysis, Calvin cycle
- Light reactions, Dark reactions



### Question No. 18

The only step used to generate ATP in fermentation is .....

- Calvin cycle
- Glycolysis
- Phosphorylation
- Krebs cycle



**Question No. 22**

---

Which enzyme is responsible for adding nucleotides to new DNA chain ?

- RNA primase
- DNA ligase
- DNA helicase
- DNA polymerase

**Question No. 21**

Nucleotides are linked together through covalent bonding between.....

- Two sugars
- Nitrogenous base – sugar
- Sugar – Phosphate
- Nitrogenous base – phosphate

**Question No. 38**

---

Bile .....

- Help absorb fats
- Digest fats
- Prepare fats for digestion
- Build fat molecules



**Question No. 39**

What organ system of the body includes the heart?

- Nervous
- Cardiovascular
- Endocrine
- Respiratory

Question No. 14

During aerobic respiration,  $\text{FADH}_2$  is produced in .....

- Electron transport chain
- Krebs cycle
- Glycolysis
- Fermentation

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Question No. 27

..... means a tissue which has multiple layers of cells

- Simple
- Stratified
- Cuboidal
- Cardiac

**Question No. 38**

---

Bile .....

- Help absorb fats
- Digest fats
- Prepare fats for digestion
- Build fat molecules

**Question No. 31**

Which system controls the activity of all other body systems?

- Skeletal system
- Digestive system
- Nervous system
- Respiratory system

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**Question No. 19**

The type of sugar in RNA nucleotide is....

- Sucrose
- Ribose
- Maltose
- Deoxyribose

Trachea branches into \_\_\_\_\_ before entering the lungs

- Two bronchi
- Three bronchi
- One bronchus
- Four bronchi

An example of Epithelial tissue found in the human body is .....

- Skin
- Skeletal muscle
- Tendon
- Adipose

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**Question No. 7**

Mitochondria and chloroplasts are.....

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

**Question No. 44**

Which muscle contracts to allow breathing?

- Diaphragm
- Larynx
- Bronchi
- Pharynx

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**Question No. 40**

Which type of blood vessels carries blood away from the heart?

- a. Arteries
- b. b & c
- c. Veins
- d. Capillaries

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Question No. 10



Which of the followings is a common waste product between car and cell?

- Glucose
- Carbon dioxide
- Oxygen
- Gasoline

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**Question No. 30**

The structural and functional units of nervous tissues are.....

- Bones
- Muscle
- Red blood cells
- Neurons

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**Question No. 37**

Which of the following organs is CORRECTLY matched with its function?

- Large intestine - Chemical digestion
- Oral cavity- Peristalsis
- Stomach- Food elimination
- Small intestine -Absorption

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Question No. 40

\_\_\_\_\_ carry deoxygenated blood.

- Capillaries
- b & c
- Arteries
- Veins

Save & Next حفظ و التالي

Question No. 39

When blood reaches lungs, \_\_\_\_\_ enters the blood

- White blood cells
- Carbon dioxide
- Oxygen
- Water

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**Question No. 7**

Cell's ATP is produced mainly by a membrane-bound organelle called

- Ribosomes
- Lysosomes
- Nucleus
- Mitochondria

**Question No. 44**


Part of carbon dioxide is transported in the blood as \_\_\_\_\_

- Bicarbonate
- Carbonic acid
- Carboxylic acids
- Water

**Question No. 10**

Which of the followings is a common waste product between car ar

- Glucose
- Carbon dioxide
- Oxygen
- Gasoline

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**Question No. 37**

The total of all energy used by animals is called.....

- Respiration rate
- Metabolic rate
- Kinetic energy
- Energy resting rate

B?

**Question No. 11**

One of the following is heterotrophs.....

- Algae
- Protists
- Fungi
- Plants

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Question No. 43

What comes after the nostril in the respiratory system ?

- Lungs
- Nasal cavity
- Trachea
- Pharynx

B?

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02

**Question No. 38**

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Bile .....

- Help absorb fats
- Digest fats
- Prepare fats for digestion
- Build fat molecules

**Question No. 31**

Which system controls the activity of all other body systems?

- Skeletal system
- Digestive system
- Nervous system
- Respiratory system

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**Question No. 41**

Special organs for gas exchange are \_\_\_\_\_

- Tracheal system
- All answers are correct
- Gills
- Lungs