Bio\_Qz3\_Ch095ec1\_2014-15

Bio\_Qz3\_Ch10Sec1\_2014-15

Bio\_Qz3\_Ch099ec2\_2014-15

Q02 Q03 Q04 Q05 Q06

Q01 Q02 Q03 Q04 Q05 Q06 Q07 Q08 Q09

Q01 Q02 Q03 Q04

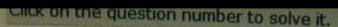
INSTRUCTION: Please choose the 8EST answer from the given options for ea

#### Question:

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

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

Exam Name: Biology QZ3 2014-15 Level: Click on the question number to solve it. Q01 Q02 Q03 Q04 Q05 Q06 Bio\_Qz3\_Ch09Sec1\_2014-15 Q01 Q02 Q03 Q04 Q05 Q06 Q0 Bio\_Qz3\_Ch10Sec1\_2014-15 Q01 Q02 Q03 Q04 Bio\_Qz3\_Ch09Sec2\_2014-15 INSTRUCTION: Please choose the BEST answer from the given of Question: Nucleic acids compose of monomers called..... Options: Fatty acids Amino acids Monosaccharides Nucleotides



Bio\_Qz3\_Ch09Sec1\_2014-15

Bio\_Qz3\_Ch10Sec1\_2014-15

Bio\_Qz3\_Ch09Sec2\_2014-15



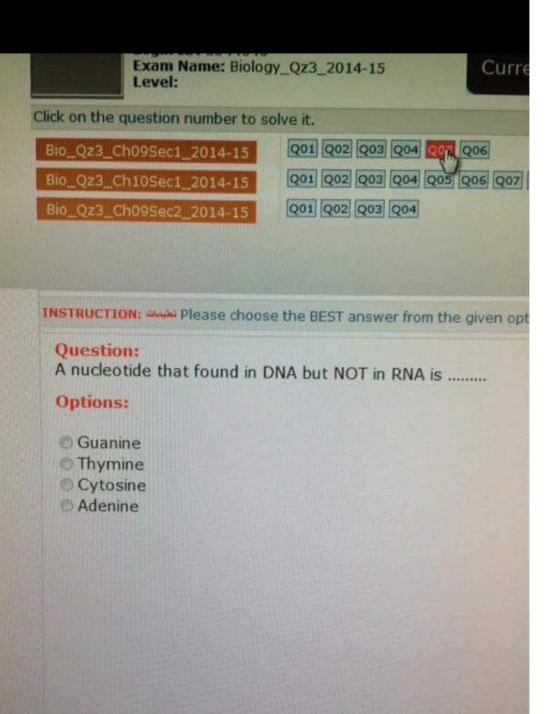
INSTRUCTION: 

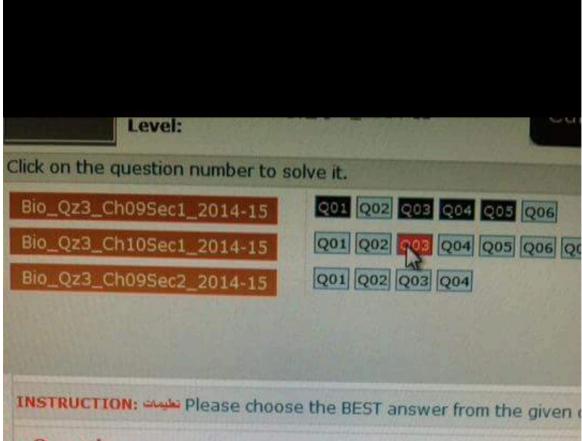
Please choose the BEST answer from the given o

#### Question:

Which of the following nitrogen bases are pyrimidines?

- Cytosine Adenine
- Guanine Cytosine
- Thymine Cytosine
- Adenine Thymine

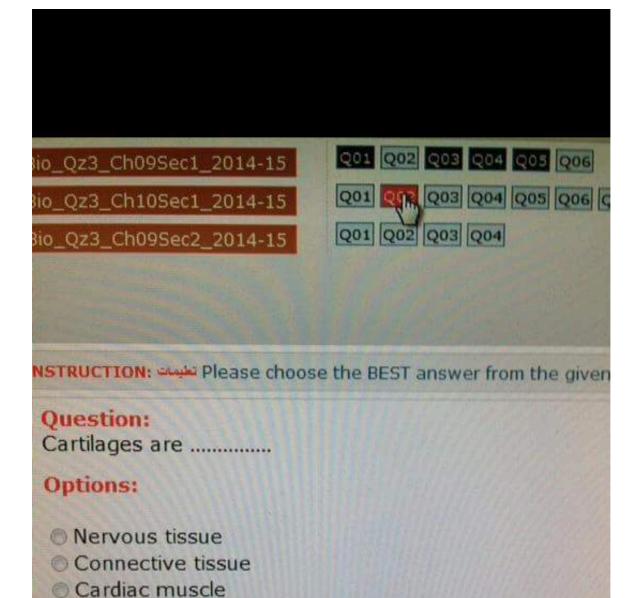




#### Question:

Skeletal muscles are connected to bones by means of ....

- Ligaments
- Tendons
- Adipose tissue
- Cartilage



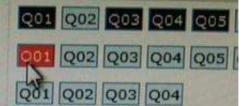
Muscular tissue

#### Click on the question number to solve it.

Bio\_Qz3\_Ch09Sec1\_2014-15

Bio\_Qz3\_Ch10Sec1\_2014-15

Bio\_Qz3\_Ch09Sec2\_2014-15



INSTRUCTION: Please choose the BEST answer from the

#### Question:

Adipose tissues belong to.....

- Connective tissues
- Nervous tissues
- Muscle tissues
- Epithelial tissues

MAN MAN MAN M

Bio\_Qz3\_Ch09Sec2\_2014-15

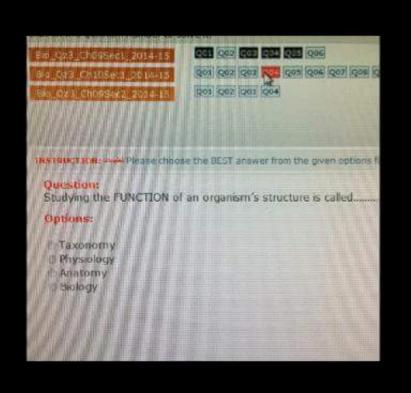
Q01 Q02 Q03 Q

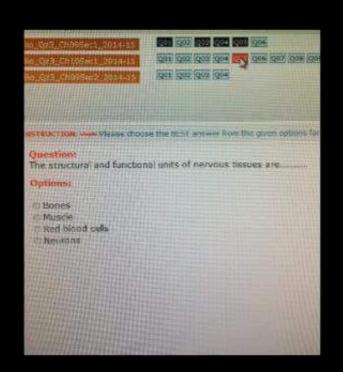
INSTRUCTION: When Please choose the BEST answer

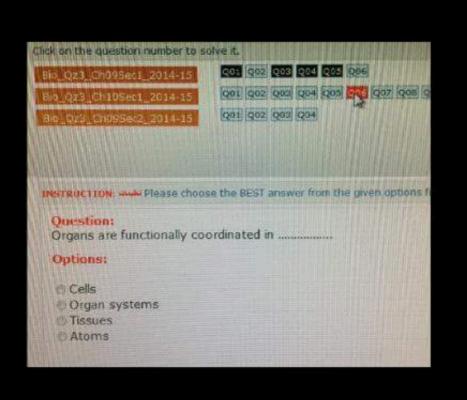
#### Question:

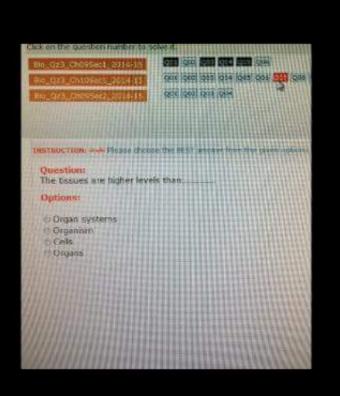
The DNA consists of .....

- Three strands
- Four strands
- One strand
- Two strands









Click on the question number to solve it.

Bio\_Qz3\_Ch09Sec1\_2014-15

Bio\_Qz3\_Ch10Sec1\_2014-15

Bio\_Qz3\_Ch09Sec2\_2014-15

Q01 Q02 Q03 Q04 Q05 Q0

Q01 Q02 Q03 Q04 Q05 Q0

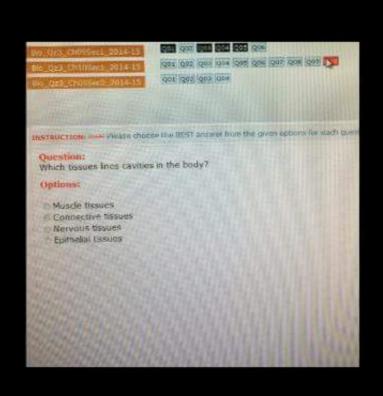
Q01 Q02 Q03 Q04

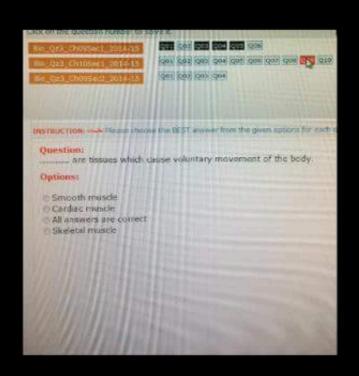
INSTRUCTION: Please choose the BEST answer from the gi

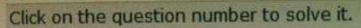
Question:

DNA replication follows a ...... Model

- Non-conservative
- Conservative
- Semi-conservative
- Conservative and semi-conservative



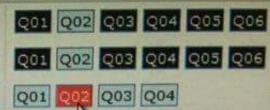




Bio\_Qz3\_Ch09Sec1\_2014-15

Bio\_Qz3\_Ch10Sec1\_2014-15

Bio\_Qz3\_Ch09Sec2\_2014-15



INSTRUCTION: عليمة Please choose the BEST answer from the give

#### Question:

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

- Chloroplast
- Cytoplasm
- Mitochondria
- Nucleus



Click on the question number to solve it.

Bio\_Qz3\_Ch09Sec1\_2014-15

Bio\_Qz3\_Ch10Sec1\_2014-15

Bio\_Qz3\_Ch09Sec2\_2014-15

Q01 Q02 Q03 Q04 Q05 Q06

Q01 Q02 Q03 Q04 Q05 Q06

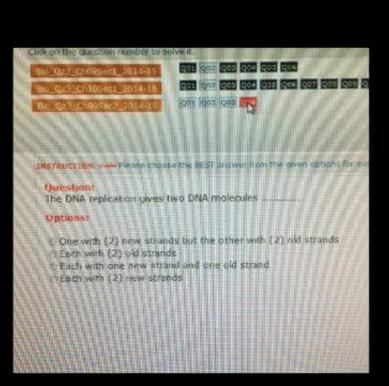
Q01 Q02 Q03 Q04

INSTRUCTION: Please choose the BEST answer from the give

#### Question:

Simply, translation is a copy of.....

- Protein from RNA
- O DNA from DNA
- O DNA from Mrna
- RNA from DNA



JIV\_Q23\_CHU95ec1\_2014-15

Bio\_Qz3\_Ch10Sec1\_2014-15

Bio\_Qz3\_Ch09Sec2\_2014-15

Q01 Q0:

Q02

Q03



Q03

Q04

Q01 Q02 Q03 Q04

INSTRUCTION: Please choose the BEST answer from

## Question:

Chromosomes consist of .....

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

Page   7	FINAL EXAM (Form B) First term BIOL 101 2015-1436
34) mRNA is tra	nscribed in the
A) Nucleus	ascribed in the
B) Cytoplasm	
C) Ribosomes	
D)Golgi bodies	
35) Which one	of the following base is found in RNA but not DNA?
A) Cytosine B) Adenine	**
C) Uracil	
D) Thymine	
36) DNA replic	
	ew DNA molecules
	aughter molecules, each has 50% of the parental DNA
	two DNA molecules join together aughter molecules, each has 100% of the parental DNA
	codon consists of nucleotides.
A) Two	odon consists of minimum and the consists of minimum and t
B) Three	
C) Six	
D) Nine	
and the of the	nese is a difference between a DNA and an RNA molecule?
38) Which of th	s uracil, whereas RNA contains thymine
A) DNA contains	ed of nucleotides, whereas RNA composed of nucleic acids
B) DNA compos	ed of nucleotides, whereas RNA composed of nucleotides, whereas RNA contains six-carbon sugars stive-carbon sugars RNA is single-stranded
C) DNA contains	e-stranded, whereas RNA is single-stranded
D) DNA is doubl	e-strainted, where
39) Columnar	epithelium is found in—
A) Kidney	
B) Liver	
c) Capillaries	
II ' - bootil	ie .
D) Small intestin	s starch is called
40) The Small 8	lands that begin digestion of starch is called
A) Adrenal	
B)Thyroid	
C) Pineal	
D) Salivary	"Riology Unit"
D) Salivary	Good Luck"Biology Unit"

FINAL EXAM (Form E) First term With 164 2000.  A) Hydrolysis and Oxidation and Dehydration include  Reduction and Hydrolysis  Reduction and Oxidation  B) Most eukaryotic cells produce energy from graces wing.  Carbon dioxide  Oxygen  Nitrogen  Hydrogen  Tracheal system  Lungs  Sills  moist body surfaces  Blood from the lungs pours directly into ght ventricle  eff ventricle  Which of these not true? cellular respiration  oduces carbon dioxide  single stage.  eases ATP  ak down glucose
Reduction and Oxidation  B) Most eukaryotic cells produce energy from phases asing Oxygen Oxygen Nitrogen Hydrogen  Tracheal system Jungs
Reduction and Oxidation  B) Most eukaryotic cells produce energy from phases asing Oxygen Oxygen Nitrogen Hydrogen  Tracheal system Jungs
Reduction and Oxidation  B) Most eukaryotic cells produce energy from phases asing Oxygen Oxygen Nitrogen Hydrogen  Tracheal system Jungs
Reduction and Oxidation  B) Most eukaryotic cells produce energy from phases asing Oxygen Oxygen Nitrogen Hydrogen  Tracheal system Jungs
B) Most eukaryotic cells produce energy from guerre using Oxygen Oxygen Nitrogen Hydrogen  Tracheal system Lungs Sills moist body surfaces  Blood from the lungs pours directly into gight atrium eft atrium eft ventricle oft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
B) Most eukaryotic cells produce energy from guesse using Oxygen Nitrogen Hydrogen  O The earthworms use the in gas exchange Guills Guills Moist body surfaces  Blood from the lungs pours directly into gight atrium eft atrium eft ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
Carbon dioxide Oxygen Nitrogen Hydrogen  OThe earthworms use the in gas exchange Guills moist body surfaces  Blood from the lungs pours directly into gight atrium eft atrium eft ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
The earthworms use the
The earthworms use the
The earthworms use the
Tracheal system  Tracheal system  Jungs  Jun
Blood from the lungs pours directly into ght atrium eft atrium ght ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
Blood from the lungs pours directly into ght atrium eft atrium ght ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
Blood from the lungs pours directly into ght atrium eft atrium ght ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
Blood from the lungs pours directly into ght atrium eft atrium ght ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
Blood from the lungs pours directly into eft atrium eft atrium ght ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage, eases ATP
Blood from the lungs pours directly into eft atrium eft atrium ght ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage, eases ATP
eft atrium ght ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
eft atrium ght ventricle eft ventricle Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
ght ventricle eft ventricle  Which of these not true? cellular respiration oduces carbon dioxide single stage. eases ATP
Which of these not true ? cellular respiration oduces carbon dioxide single stage. eases ATP
Which of these not true? cellular respiration duces carbon dioxide single stage. eases ATP
single stage. eases ATP
single stage. eases ATP
single stage. eases ATP
eases ATP
ak down glucose
Carl Control C
rbon dioxide, ATP and electrons
role in glucose breakdown
nputs to Calvin cycle
products of the Calvin cycle
nputs of light reactions
hotosynthesis, sugar is produced in the through
a , Calvin cycle
Light dependent reactions
a , Light dependent reactions
toid , Calvin cycle
oid , light dependent reactions

Page   5	EINAL DV
	FINAL EXAM (Form B) First term BIOL 101 201
21) The plasma M	FINAL EXAM (Form B) First term BIOL 101 2015-1436
A) Phospholipids	Membranes are composed mainly of
B) Nucleotides	
C) Steroids	
D) Lipoprotein	
22) A piece of a D	NA strand خبط with specific nucleotides sequence is a—
A) Gene	with specific nucleotides sequence is a—
B)Chromosome	
C) Chromatin	
D) Ribosome	
23) What tissue n	nakes up most of your heart?
A) Muscles	DNA subsection in the second section in the section in
B) Fat	
C) Loose D) Mucosa	
nutrients transpo A)Bones B)Adipose C)Blood D)Cartilage	following connective tissue is responsible for oxygen and rtation?
BEST WEIGHT OF HAVE	ollowing tissue does cover the outside of the body and line
organs and cavitie	
A)Muscle tissue	
B)Epithelial tissue	
C)Nervous tissue	
D)Connective tissue	selium is found in governote has TVA shimilt and
ac) Mayomont of St	olute with/down concentration gradient is
20) Movement of 5	
A) Active transport	
3) Photosynthesis	
) passive transport	
) Cellular respiration	n of the state of

B) Oxidative phosphorylation

C) Citric acid cycle

D) Glycolysis and Krebs

#### Select the correct single choice of the following MCQS and Mark with a Circle, then mark the proper square in the answer sheet.

- 1) To block the enzyme action, the enzyme's active site interacts with
- A) the enzyme's substrate
- B) competitive inhibitors
- C) non-competitive inhibitor
- D) All of them
- 2) The "energy" is .....
- A) Quantity of food eaten
- B) Capacity to perform work
- 9) Laws that study energy transformations
- D) Laws that study cell movement
- 3) Which of the following is a result of glycolysis?
- A) Loss of 6 ATP per glucose molecule
- B) Gain of 28 ATP per glucose molecule
- C) Citric acid cycle, oxidative phosphorylation, and glycolysis
- D) Oxidative phosphorylation, citric acid cycle, and glycolysis
- 4) One of Smooth ER functions is --
- A) Lipids synthesis
- B) Protein synthesis
- C) Making membrane
- D) Synthesis sugar
- 5) An enzyme that begins the chemical digestion of proteins.
- A) Pepsin
- B)Lipase
- C)Amylase
- D)Lactase
- 6) Tiny finger like projections in the small intestine.
- A) Villi
- B)Alveoli
- C) Pilli
- D)Cilia

# Which stage of aerobic respiration requires ATP?

- a. Glycolysis
- b. Oxidative phosphorylation.
- c. Fermentation
- d. Krebs cycle

بس احس كلهم يحتاجو طاقه ولا ؟ .. 🛕 الجواب



The are.....in aerobic cellular respiration?!

A-tow stages.

B-three stages.

C-one stage.

D-four stages.

إيش الجواب الصحيح؟

ال أ هل..... في التنفس الخلوي الهو ائية?!

أ لف - مراحل السحب<sub>.</sub>

ب - ثلاث مراحل

ج - مرحلة واحدة<sub>.</sub>

د - أ ربع مراحل

إيش الجواب الصحيح؟

# Cell drinking phagocytosis pinocytosis exocytosis

#### All organisms require

- DNA
- RNA
- 🌘 energy 🌘

#### Break down a complex molecules

- anabolism
- metabolism
- 🌘 catabolism 🌘

#### Series of chemical reaction

- 🌘 metabolism 🌘
- anabolism
- catabolism

#### The energy currency of cells

- ADP
- ATP
- AQD

#### Enzymes have unique shapes

- 3d

## Water travels from lower to high 👹 diffusion 🤴 active transport 🤴 osmosis 🤎 Solvent and solute particles move to equalize 🦁 diffusion👹 🧓 osmosis 🤴 passive transport Only solvent particles move 🡹 diffusion 🤴 osmosis 🤎 🤴 active transport 🤴 passive transport Used to export bulky molecules 🁹 endocytosis 🌘 exocytosis 🌘 pinocytosis Used to import substance 🌘 endocytosis 🌘 exocytosis phatocytosis Cell drinking

All organisms require

phagocytosis

pinocytosis

exocytosis

DNA

RNA

🌘 energy 🌘

## The membrane protein function as 🤴 enzymes 🦁 cell 👸 DNA 👸 RnA Transport low to high is 🁹 passive 🤎 active 🤎 Active transport needed 🍏 ATP👹 🤴 protein 👹 ADP Non polar molecules for example 🤴 glucose 🤴 sugars 🤎 carbon dioxide 🤎 Polar molecules for example 👹 carbon dioxide 🦁 glucose 🌍 🦁 oxygen Moves down a concentration gradient (from high to law) 🁹 active 🦁 passive 👹 Facilitated diffusion a type of 🤎 passive transport💖 🤴 active transport

birds and mammals have
<ul> <li>small lungs</li> <li>large lungs</li> <li>simple lungs</li> <li>complex lungs ✓</li> </ul>
<ul> <li>gas exchange have phases</li> <li>one</li> <li>Three</li> <li>four</li> <li>eight</li> </ul>
is a respiratory organ found in many aquatic organisms
<ul><li>gill ✓</li><li>lungs</li><li>air sacs</li><li>body surface</li></ul>
Loading and unloading of O2 - H2O
-iron - Hemoglobin ✓ chlorophyll -
gas exchange اسئله مراجعه لشابتر ال دعواتکم

Chapter 9:
<ul><li>iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii</li></ul>
<ul><li>iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii</li></ul>
🌼 Where the exchange of gases takes place
<ul> <li>Bronchus</li> <li>bronchioles</li> <li>alveoli</li> <li>air sacs</li> <li>3 &amp; 4√</li> <li>Air يعني حويصلات وممكن يقولنا a veo i يعني حويصلات وممكن يقولنا عملان يقولنا sacs</li> </ul>
The pharynx is also called
<ul> <li>Amphibians have</li></ul>

- -

Chapter 5:
Enables cells to produce ATP without O2
<ul> <li>Fermentation ✓</li> <li>Glycolysis</li> <li>photosynthesis</li> <li>cellular respiration</li> </ul>
Provide energy for life.
<ul> <li>Photosynthesis</li> <li>Cellular respiration ✓</li> <li>Photosynthesis, Glycolysis</li> <li>Cellular respiration, Glycolysis</li> <li>Fermentation , Calvin cycle</li> </ul>
<ul> <li>lactic acid ✓</li> <li>alcoholic</li> <li>glycolysis</li> <li>Calvin cycle</li> </ul>
glycolysis occurs in the
<ul> <li>Chloroplasts</li> <li>Cytoplasm ✓</li> <li>Mitochondria</li> <li>Nucleolus</li> </ul>

<ul> <li></li></ul>
Chapter 4 :
<ul> <li>Water moves across semi-permeable by</li> <li>Osmosis ✓</li> <li>diffusion</li> <li>active transport</li> <li>passive transport</li> </ul>
<ul> <li>Break down a complex molecule called</li></ul>
Block substrate from entering enzyme active site called
<ul> <li>competitive inhibitors</li> <li>non- competitive inhibitors</li> <li>osmosis</li> <li>Active transport</li> </ul>
is the capacity to perform work
- Gas - Co2 -Water - energy <b>√</b>

Chapter 3 :  Chapter 3 :  In all photosynthetic eukaryotes.
-stroma - thylakoids - Chloroplasts <b>√</b> - granum
<ul> <li>specimens can be magnified up to Times in light microscope.</li> <li>1000 ✓</li> <li>10000</li> <li>1000000</li> <li>10</li> </ul>
The fall name for TEM - Scanning electron microscope - light microscope - Scanning light microscope - Transmission electron microscope ✓
<ul> <li>The is the cell's genetic control center</li> <li>chlorophyll</li> <li>Chloroplasts</li> <li>Nucleus ✓</li> <li>Nucleolus</li> </ul>

جاني سوْال في الميد الصبغة المسوؤلة الحماية من الضوء الزائد -صبغة caretenoids .... is not component of endomembrane system?

A. plasm membrane

B. Ribosomes

الإجابة رايبوزومات

احنا متعودين إنها الميتوكندريا والبلاسديدات الخضراء فانتبهوا لها

\_\_\_\_\_

الجزيئات الكبيرة تسمى : micro molecules macro molecules

\_\_\_\_\_

Macro

Glycoprotein >>>> with membrane protein Glycolipid >>>> with membrane lipid

\_\_\_\_\_

ECM function : - protect nucleus -maintain cell movement -protect cell membrane ✓

# %chloroplasts:

- -An energy converting organelle
  - found in plant cell
  - double membrane Organelle
    - All answers are correct
- To connected sacs inside chloroplast called:
  - Thylakoids 🗸
  - inner membranes
  - outer membranes
  - inter membranes

﴿ ﴿ سؤال بمعناه الهواء اللي نتنفسو والطعام اللي ناكلو يعتمد على :

- البناء الضوئي. ✓ -التنفس الخلوي

Chlorophyll :
-absorbs oxygen
-absorbs sunlight 
- absorbs CO2
-absorbs water

**\***ECM function :

protect nucleus

-maintain cell movement

-protect cell membrane 🗸

-all answer are correct

Reactions which happened Soon after absorption of sun light:

Light dependent 

Light independent

Microscope which can resolve cell organelle clearly 
are called:

-light microscope

Dessecting microscope

-All answers are correct

-Electron microscope 🗸

The pigment absorbs excessive light which damage chlorophyll:

-Chlorophyll a

-Chlorophyll a+b

-carotenoid 🗸

-Chlorophyll c

\_\_\_\_\_

# Continuity of life is based on heritable information in the form of DNA

-----

وظيفة Extracellular

الخيارات

يحافظ عالنواة

يحافظ عالعضيات

يحافظ ع حركة الخلية او شي كذا ناسية

جميع ما ذكر

-----

الاجابة جميع ما ذكر

the science that names and classifies species into
: groups
a) biology
b) botany
c) taxonomy
c) zoology
 موم السؤال ذا ط <sup>ل</sup>
مهم السؤال ذا 🖒 والاجابة C
0 42.2.3
Making polymers :dehydration by removing water
Breaking polymers: hydrolysis by adding water
: To connected sacs inside chloroplast called
Thylakoids -
inner membranes -
outer membranes -
inter membranes -
 اذا قالله معموم هنا بکون ippor
اذا قالك space هنا يكون inner منى عارفه الاجابه !
سي عارف الاجابه :
ـــــــــــــــــــــــــــــــــــــ
 تنفس خلوي

40) Large solid particles enter the cell by a process called: A. Exocytosis B. Phagocytosis nocy tosis D. Polycytosis
 B
ـــــــــــــــــــــــــــــــــــــ
الماء - اكسجين - خيارات مستبعده
 الماء
the lowest level of organization that can perform all activites required for life a) atom b) cell c) organ d) tissues
В

كان فيه سؤال انو اش الي يوصل للاتزان مدري يحتاج اتزان عنده ٨ عدم المنابرية ٨ عدناه عدال مدري يحتاج اتزان
Acttive/Passive/Divisions/Osmosis
الصح Passive
ـــــــــــــــــــــــــــــــــــــ
Reactions which happened Soon after absorption of
:sun light
Light dependent√
Light independent
 endocytosis انا جاني ايش الجزيئات الةبيره اللي يحدث لها 
انتبهو polysaccharides الجواب طلع
ـــــــــــــــــــــــــــــــــــــ
 DAN <u>۱</u>
34) which of the following organelles is not found in plant cells?
 Lysosomes and centrioles ﴿ الاجسام الهاجمه والمريكزات

# B **⋖** Sa Sa



24 ديسمبر، 2015، الساعة 02:44 مساءً - الم

Signal celled amoeba and bactria different domains because:

A- bacteria prokaryotic

B - both unicellular

إ شارة ال أ ميبا و خلية ا مختلف المجالات لأ ن: A-prokaryotic البكتيريا ب - كلانا وحيد الخلية

تمت الترجمة من الإنجليزية



# Uytu Hygj

المرحله التي تحدث قريبا بعد امتصاص البلاستيدة للضوء؟ المرحلة الأولى.

أعجبني ٠ رد ٠ المزيد ٠ 16 ديسمبر، 2015



# Wejdan Alsehli

المواد اللتي تدخل بسهولة عبر الفشاء ولاتحتاج الى طاقه؟؟



### Mlak Alj

محولات الطاقه ؟ بلاستيدات الخضرا والميتوكندريا

أعجبني ٠ رد ٠ المزيد ٠ 9 ديسمبر، 2015



# Mlak Alj

مصنع الاغشيه ؟

أعجبني ٠ رد ٠ المزيد ٠ 9 ديسمبر، 2015



### اسما الحربي

منتج دورة كالفن إجاني ثاني اكسيد الكربون والجلاكوز ؟ حطيت الجلامكوز لانى ثانى اكسيد الكربون مدخل

أعجبني ٠ رد ٠ المزيد ٠ 10 ديسمبر، 2015



### Abdulaziz Alharbi

منتجات و مدخلات الدورات ( المتطلبة للضوء وغير المتطلبة كدارة كلفن



# ATP is : بروتین او انزیم او کونزیم ومافتکر الخیار الرابع

أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015

Leena Sur

اسرار الهلاك



النسخ والترجمه للdna

أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015

### **RoRo ALshareef**



which of the following organisms is photoautotrophic?

- A.Archaea
- B.Fungi
- C.plants and algae

  ✓
- D.All eukaryotic organisms

عرض الترجمة

أعجبني ٠ رد ١ المزيد ٠ 8 ديسمبر، 2015

### Hanouf MH



جاني انو مصنع البروتين هوا الرايبسوم ، وتحصل الخليه على الطاقه من الميتوكندريا وايش العنصر المشترك بين الخليه الحيوانه والنباتيه ، برضو جاني تعرفين لنوعين من الابتلاع الخلوي ، جاني عن تفاعل الظلام ، جاتني اشياء كثيره عن جزئيه البناء الضوئي ، جاني عن الكاروتين التعريف ، برضو جاني انو اشياء في الخليه النباته غير موجوده في الخليه الحيوانيه .

### Sura Salem



الجلوكوز جا من ثاني اكسيد الكربون و اش الاسهل ف المرور الاكسجين و لا الماء و لا البروتين حطيت البروتين و تركيب الفشاء وحدة من الخيارات غلط اللي هيا الرايبوزوم وظائف الشبكة الخشنه توزيع البروتين و فالنقل مين هوا المذاب اللي يمشي عكس الخيارات يا اما الاسموزية او النقل النشط حنقول نشط لانو مذاب لو قال مذيب يسير اسموزية و عمليات البناء ف الايض انابوليزم و اش هيا عمليات الهدم والبناء الايض و الاشعة تمتص فالكلوروبلاست ايوة واش هوا التركيب اللي يستخدم ف النقل النشط من الخيارات الغشاء او الميتوكندريا نختار الميتوكندريا نختار الميتوكندريا فتكرو

أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015

### RoRo ALshareef



Cells import fluids by A.phagocytosis B.pinocytosis C.Exocytosis D.passive transport

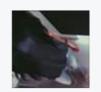
عرض الترجمة

أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015

### Abdulaziz Alharbi



ميزات الانتشار - البلاستيدات الخضراء ماهي وظائفها - الميدكوندريا و البناء الضوئي - واغلب الاسئلة ٦٠٪ من البناء الضوئي شابتر ٦



### Afrah Albakri

الاوكسجين في البناء الضوئي يصير ماء

أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015



### Afrah Albakri

ال ATP لما يصرلو تحلل مائي من نواتجو ال ADP

أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015



### Afrah Albakri

ال phago وال pain و الابتلاع بمستقبل كلها تندج تحت

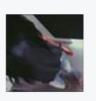
أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015



# Afrah Albakri

تندرج\*

أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015



### Afrah Albakri

تعريف الخاصيه الاسموزيه + جاني اختاري الصح الانتشار ما يحتاج

وسط

أعجبني ٠ رد ٠ المزيد ٠ 8 ديسمبر، 2015



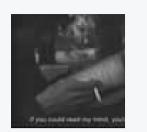
### Ghidaa AlRuhaily

حركة الاهداب والاسواط

# Afrah Albakri



جاني |cell wal موجود ف (النبات) + المجهر الضوئي يمبر ١٠٠٠ مره + الكلوروفيل يعطي اللون الاخضر للورقه - البلاستيدات الخضراء تمتص الضوء فالنبات - حلقة كلفن يدخل فيها ديوكسي رايبوز و الكتورن و ATB + تعريف bound رايبوسوم + النبات والحيوان حقيقي النواة + مرور الموتد الكبيره بالفاقوسايتويسز



# نايف الرحيلي

مما الاسواط والأهداب تتكون ...الجواب الميتوكوندريا + المجهر الضوئي قادرع رؤية وخيارات الأصح النواه + سؤال عن DNA + عن الATP ...+وكم مرحله للبناء الضوئي..مرحلتين + سؤال عن البروتينات energy + جاء سؤال كمان عن غشاء الخلية ما اتذكر السؤال بضبط + سؤال عن الرؤوس \*فراغ\* الخيار محبه للماء +وكمان جااء سؤال عن الفسيفسااء المائعة 🕲 ليه تسمى كذا..+جاء سؤال طويل عن الأكسجين وانا اخترت الماء أتوقع ان الأكسجين مخرج لي ...est this تذكرت بعد ما عصرت مخي ...والله يوفق الجميع 😌



# إياس الرحيلي

سؤال عن ال atb إذا صارلو هايدرو ليسيز اش ينتج الجواب adb



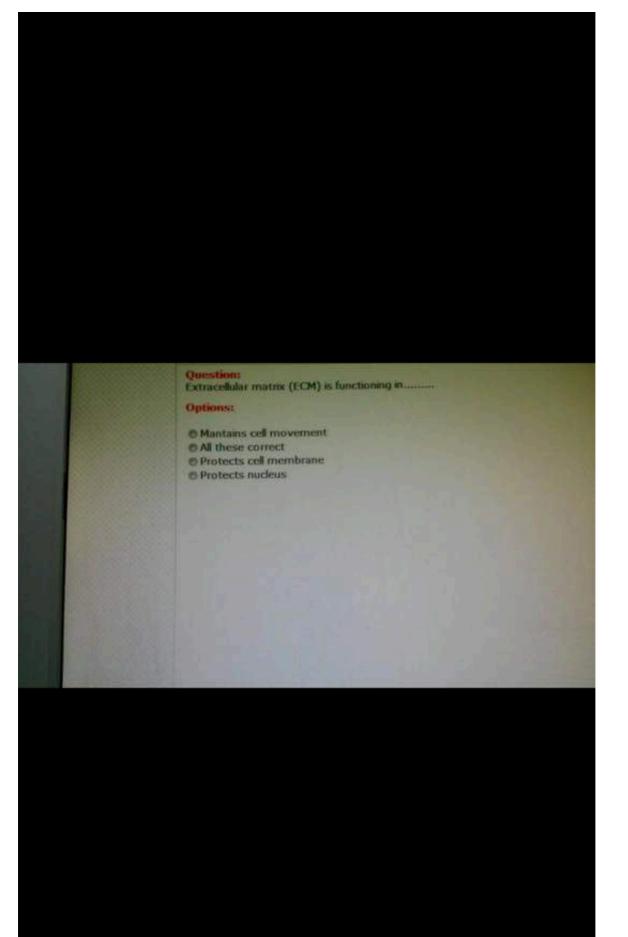
# أمجاد الحربي

سؤال عن مصطلح تثبيت الكربون\* fixation تكرر تقريبا بكل النماذج .. منتجات الطاقة في النبات الكربوهيدرات وايش؟؟الدهون ولا المعادن! و الهيموجلوبين بروتين معقد له تركيب ثانوي ولا اولي ولا ايش؟ Is programmed by discrete unit of inheritance called:

- gene
- DNA
- nucleoide ??????

# Inputs of photosynthesis equation are .....

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



Question

The molecule that do NOT cross the plasma membrane eas

- 6 Oxygen
- **O** Water
- 6 Protein
- Carbon dioxide

The composition of the contract of the contrac

# Options: ATP composed of .....

- Guanine, ribose, and two phosphate groups
- Adenine, deoxynbose, and three phosphate groups
- Adenine, nbose, and three phosphate groups
- Cytosine, deoxyribose, and three phosphate groups

Question: The plasma Membranes are composed mainly/largely of

- Steroids
- Carbohydrates
- TriglyceridesPhospholipids

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

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

Please choose the BEST answer from the given options for each question

Question: Which of these is NOT correct about photosynthesis?

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

# Question:

Chemo-autotrophs are organisms which......

- Can't make food
- Make their food using chemical compounds
- Depend on others food
- Make their food using light

# uestion:

Water moves through a semi-permeable membrane by.....

# Options:

- Active transport
- Diffusion
- Endocytosis

Osmosis

Question:
The molecule that do NOT cross the plasma membrane easily is ......

- Oxygen
- Water Protein
- Carbon dioxide

# Question:

Chloroplast is.....

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

ISTRUCTION: AND Please choose the NEST answer from the given options for each question.

# Question:

The pigment that absorbs excessive light that would damage chlorophyll is called?

- Caretenoid
- Chlorophyll c
- Chlorophyll a + b
- Chlorophyll a

# uestion:

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

- Endosed ribosomes
- Bound ribisomes
- Free nbosomes
- None of them

# uestion:

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

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

# )uestion:

Extracellular matrix (ECM) is functioning in.....

- Mantains cell movement
- All these correct
- Protects cell membrane
- Protects nudeus

#### mestion:

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

- Lysosomes
- Plasma membrane
- Golgi apparatus
- Endoplasmic reticulum

A Please choose the BEST answer from the given options for each question

## Question:

What is the microscope used to study the internal cell structures?

- Scanning electron microscope (SEM)
- Transmission electron microscope (TEM)
- Light microscope
- All the three microscopes are used

Electron microscopes magnify specimens up to.....

#### Options:

- 100 times
- 10 times
- 100 000 times

1000 times

Which structure is absent in plant cells?

- CentrioleChloroplastsCell wall
- Central vacuole

Which structure is common in animal and plant cells?

- ODNA
- Cell membrane
- Nudeus
- All answers are correct

Cellular drinking is called......

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

Question:
Cells import large solid particles through ......

- Phagocytosis
- Exocytosis
- Diffusion Pinocytosis

THE HACT TON: THE SECTION OF DESCRIPTION OF THE PERSON OF

## Question:

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

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

The ...... law of thermodynamics states that energy is constant, can be trans

- Second
- First Fourth Third

Enzyme maintains.....

#### Options:

- All these correct
- Quaternary shape
- Three-dimensional shape

Two-dimensional shape

Chloroplast and mitochondna are enclosed by .....

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

Question: Which one of the following is NOT an organelle?

- ODNA
- Golgi apparatus
- Lysosome
- Mitochondria

Question: The structure that holds animal cells together is called?

- Cell wall
  Extracellular matrix
  Centriole
- Lysosome

#### Juestion:

Carbon dioxide, ATP and electrons

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

# Inputs of photosynthesis equation are .....

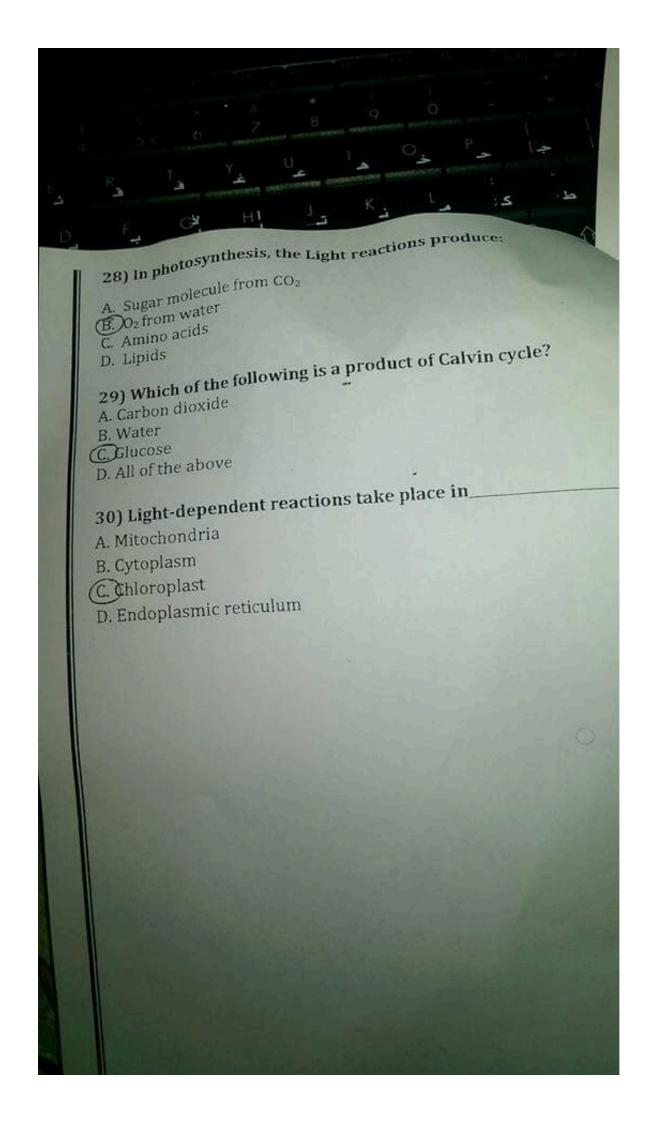
- Glucose and oxygen
- Water and glucose
- Oxygen and lactic acid
- Carbon dioxide and water

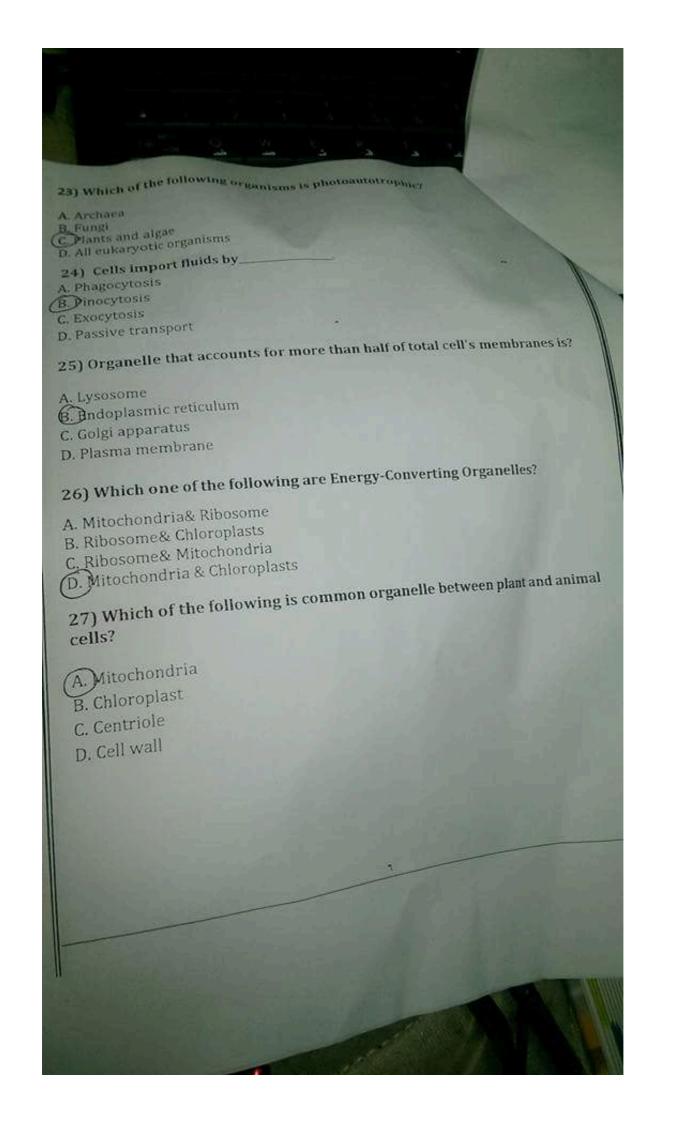
## The oxygen produced in photosynthesis comes from a stage called. Glycolysis Citric acid cycle Calvin cycle Light reactions

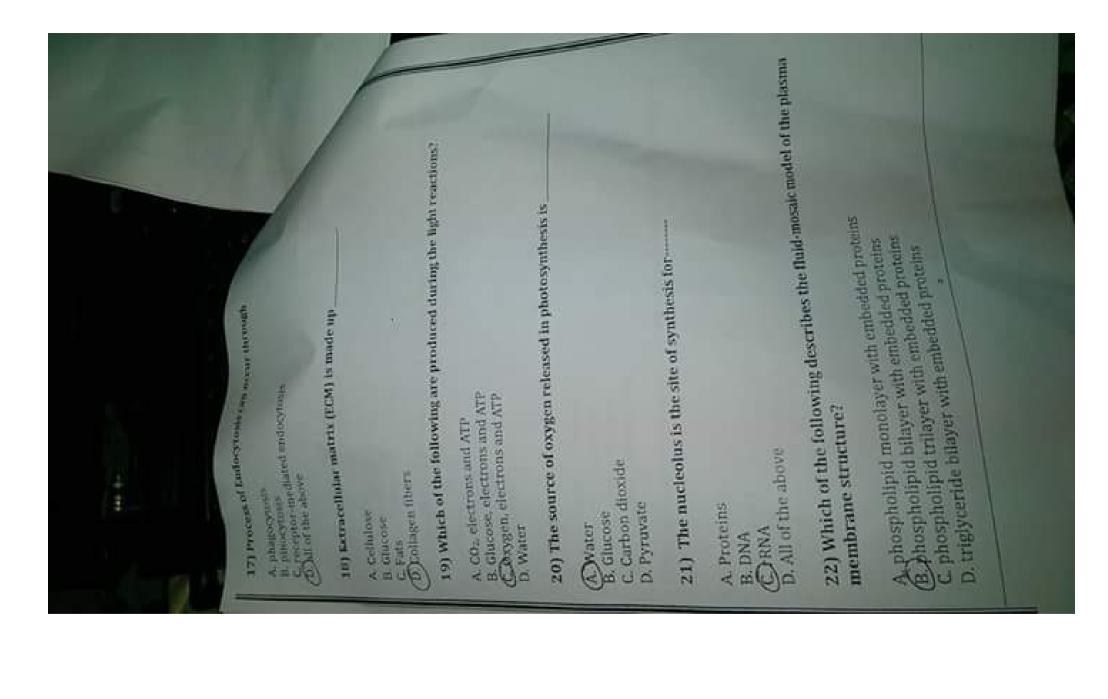
## During Calvin cycle, Carbon dioxide is incorporated into organic compou Carbon hydrolysis Options: Carbon fixation Carbon evaporation Carbon generation

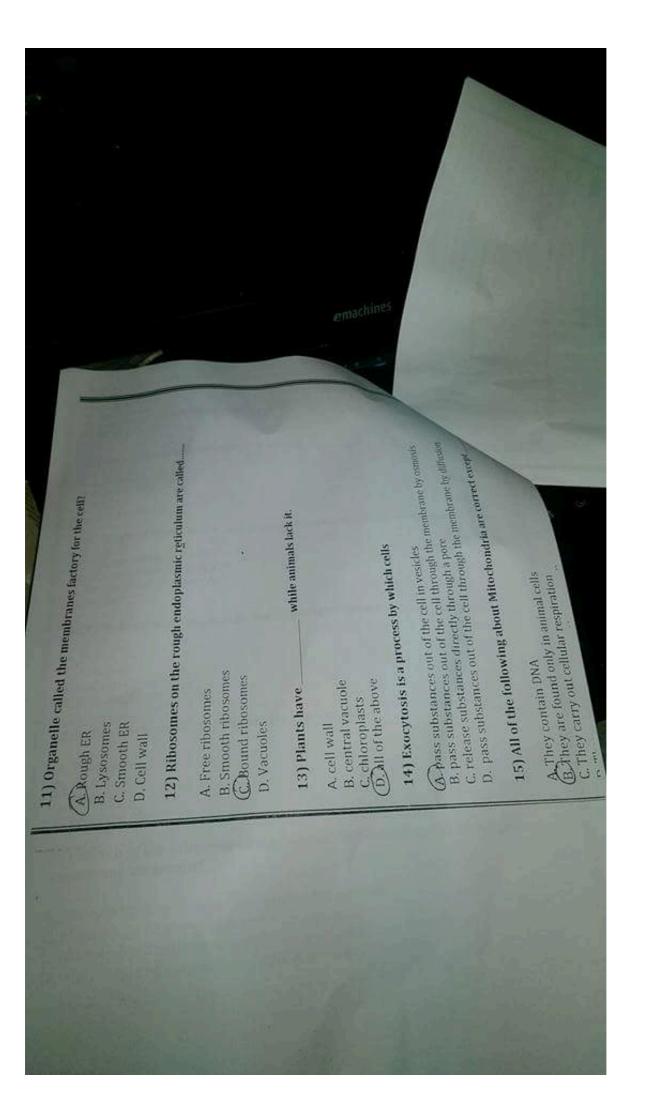
## The thermodynamics are .....

- Capacity to perform work
- Quantity of food eaten
- Laws that study cell movement
- Laws that study energy transformations



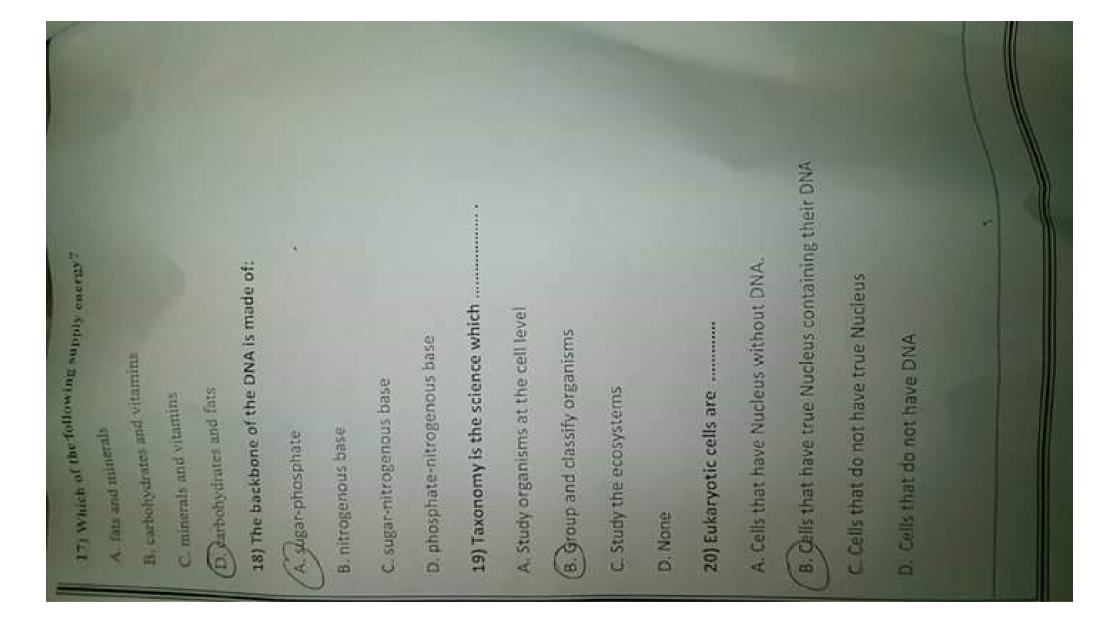


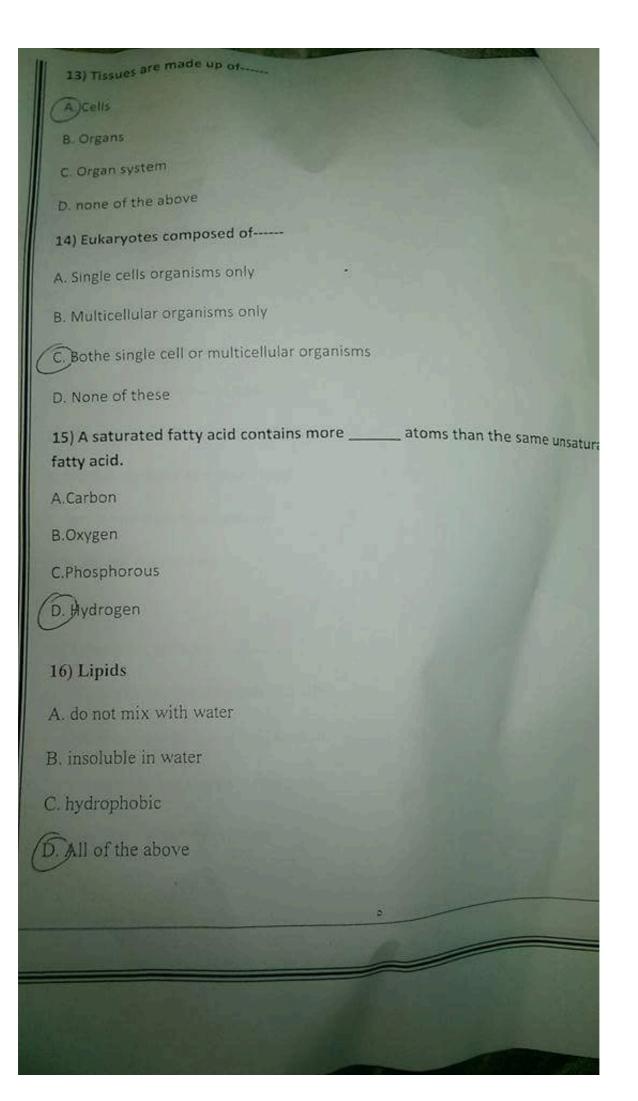




liffusion,	ticles from an	e the cell's organelles	has	
assist in facilitated diffusion,	A Enzymes B. ATP C) ransport proteins D. Semi-permeable membrane  8) Diffusion includes the movement of particles from an and	B. low concentration, high concentration  B. low concentration, low concentration  D. low concentration, high concentration  D. low concentration, high concentration  Use enzymes to recycle the cell's organelles  Golgi  Chloroplast  All of the above	Endoplasmic reticulum Mitochondria Nucleus	
73.The	A Enzymes B. ATP C. Fransport proteins D. Semi-permeable m 8) Diffusion includes of to an	All of the above	A Endoplasmic reticulum B cell wall C. Mitochondria D. Nucleus	

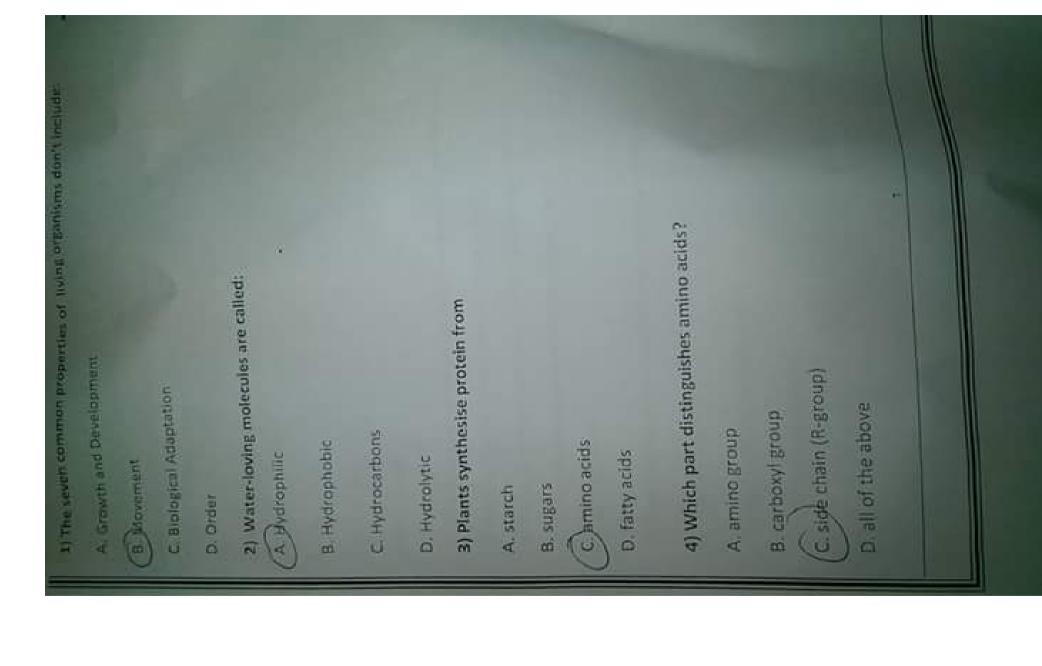
leed from the
1) RNA is synthesized from DNA by the process of-
A. translation (2)
Btranscription
C. transgenic
D. duplication
2) Photosynthesis is
A. Only a reduction process
R Only an oxidation process
Oxidation + reduction processes
D. Hydrolysis + oxidation
3) All food chains begin with
A. Animals
B. Plants and Algae
C. Archae and Bacteria
D. All of the above
4) Which best describes Calvin cycle?
A. It is the first stage of photosynthesis
B. It uses CO <sub>2</sub> to produce proteins
C_It gives energy-rich ATP
Of uses the energy stored in ATP and NADPH
5) Potential energy" is the
A. ATP molecule
Stored energy
. Wasted energy
. Energy of motion
* The state of the
THE RESERVE TO SERVE THE PARTY OF THE PARTY
THE RESERVE OF THE PARTY OF THE





3) Ecosystems have the By flows, where energy enters into the system as-			
A. Heat energy			
B. light energy.			
C. Chemical energy.			
D. Kinetic energy.			
10) The major components of cell membrane	es are the:		
A. proteins			
B. carbohydrates			
C. phospholipids			
D. Cholesterol			
11) Life is divided into			
A. 2 domains			
B. 3 Domains			
C. 4 Domains			
D. 5 Domains			
12) A group of organisms belonging to the	same species forms		
A. A community	B. A population		
C. An ecosystem	D. Biosphere		
	1		

5) Protists are a diverse collection of
A. unicellular prokaryotes
anicellular eukaryotes
Qunicellular and multicellular eukaryotes
D. None of the above
No. of the last terms of the l
6) The simple unit of carbohydrate is
(A. Monosaccharide
B. Fatty acid
C. Amino acid
D. Nucleic acid
7) The three basic structural differences between DNA and RNA are
A. RNA has the base uracil instead of thymine in DNA.
B. DNA has the sugar deoxyribose but RNA has the sugar ribose.
C. DNA is double stranded while RNA is single stranded.
Dail of the above
8) The two major processes in ecosystem dynamics are
A. Matter and energy
B. Reproduction and adaptation
C. Water and nutrients
D. None of these



THE PARTY OF THE P

## Question:

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

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

The molecule that do NOT cross the plasma membrane eas

- 6 Oxygen
- **O** Water
- 6 Protein
- Carbon dioxide

# Inputs of photosynthesis equation are .....

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

Chloroplast and mitochondna are enclosed by

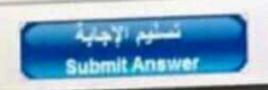
- Four layered membrane
- Single membrane
- Double membrane
- Three layered membrane



The fluid-mosaic model of the cell membrane is a Questions

- Tn-layer of phospholipid with embedded proteins
- © Bi-layer of primary proteins with embedded lipids
- Mono-layer of phospholipid with embedded proteins
- Be-layer of phospholipid with embedded proteins





#### Duestion:

Carbon dioxide, ATP and electrons

#### Options:

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

1

Question: The plasma Membranes are composed mainly/largely of

- Steroids
- Carbohydrates
- Phospholipids Triglycerides



Question: Which one of the following is NOT an organelle?

- OUNA
- Golgi apparatus
- Lysosome
- Mitochondria

Question:
Water moves through a semi-permeable membrane by.....

- Active transport
- Diffusion
- Osmosis • Endocytosis



# Question:

Which structure is common in animal and plant cells?

## Options

- ODNA
- © Cell membrane
- Nudeus
- All answers are correct



## uestion:

Enzyme maintains.....

## Options

- All these correct
- Quaternary shape
- Three-dimensional shape

Two-dimensional shape



The ...... law of thermodynamics states that energy is constant, can be trans

- Second
- First Fourth Third



# Question:

Chemo-autotrophs are organisms which......

# Options:

- Can't make food
- Make their food using chemical compounds
- Depend on others food
- Make their food using light



# Question:

Chloroplast is.....

## Options:

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



### هذي اسئلة ماعرفت فصولها ومعلومات

- trachea is made of .. •??
- muscle and elastic fibres -
- elastic fibres with rings of cartilage -
- muscle and elastic fibres with rings of cartilage ✓ -
  - Heartis:??
  - Skeletal muscle-
  - Cardiac muscle ✓ -
  - Somooth muscle-
  - Which one is true about Red blood: ??
    - Smooth-
    - Easy to flow through vessels -
      - Round-
      - All**√**-
      - Function of skin; ??
    - Bind and support other tissues -
      - Protective barrier **√**-
      - Provide movement-
    - Extracellular matrix of blood: ??
      - Collagen-
      - Plasma √-
        - Rubbly-
      - Red blood cells are type of ??

Nervous tissue -
Connective tissue ✓-
Muscles tissue-
Note <b>₹</b>
Endergonic reactions >>> require energy >>> usually associated with anabolism ●
Exergonic reactions >>> release energy >>> usually associated with catabolism
Hydrolysis) $\$ (Dephosphorylation) ATP+H2O >> ADP + P) $\bullet$
Dehydration) (phosphorlation) ADP+P>> ATP+H2O)
۳
احياء تجميع ٣
The membrane protein function as
• The membrane protein function as
• enzymes <b>♥</b>
, ▼ cell
♥ DNA
· ▼ RnA
•
Transport low to high is
<b>♥</b> passive
<b>▼</b> active <b>▼</b>

<b>▼</b> ATP <b>▼</b>
<b>▼</b> //// <b>▼</b>
* protein
<b>▼</b> ADP
Non polar molecules for example
<b>♥</b> glucose
<b>▼</b> sugars
🗳 carbon dioxide 🗳
Polar molecules for example
carbon dioxide
♥ glucose ♥
<b>♥</b> oxygen
Moves down a concentration gradient (from high to law)
<b>▼</b> active
* passive *
🍎 passive 🍑
₱ passive       ₱     Facilitated diffusion a type of
Facilitated diffusion a type of
Facilitated diffusion a type of <b>♥</b> passive transport <b>♥</b>
Facilitated diffusion a type of <b>♥</b> passive transport <b>♥</b>
Facilitated diffusion a type of  passive transport  active transport
Facilitated diffusion a type of  passive transport  active transport  Water travels from lower to high
Facilitated diffusion a type of  * passive transport  * active transport  Water travels from lower to high  * diffusion
Facilitated diffusion a type of  passive transport  active transport  Water travels from lower to high  diffusion  active transport
Facilitated diffusion a type of  passive transport  active transport  Water travels from lower to high  diffusion  active transport  osmosis  Solvent and solute particles move to equalize
Facilitated diffusion a type of  passive transport  active transport  Water travels from lower to high  diffusion  active transport  osmosis

- **♥** osmosis
- \* passive transport

Only solvent particles move

- **ö** diffusion
- 🏺 osmosis 🗳
- \* active transport
- passive transport

Used to export bulky molecules

- endocytosis
- 🏺 exocytosis 🗳
  - pinocytosis

Used to import substance

- 🏺 endocytosis 🗳
  - exocytosis
- phatocytosis

Cell drinking

- \* phagocytosis
- 🏺 pinocytosis 🗳
  - exocytosis

All organisms require

- **Ö** DNA
- **♥** RNA
- 🛡 energy 🛡

Break down a complex molecules

- anabolism
- \* metabolism
- 🏺 catabolism 🗳

Series of chemical reaction

- 🛡 metabolism 🗳
  - \* anabolism
  - \* catabolism

The energy currency of cells

- **♥** ADP
- **♥** ATP **♥** 
  - **\*** AQD

Enzymes have unique shapes

- **♥** 3d **♥**
- Chapter 4♥
  - **♥** cell
  - **♥** DNA
  - **♥** RnA

Transport low to high is

- \* passive
- **♥** active **♥**

Active transport needed

- **♥** ATP **♥**
- **\*** protein
  - **♥** ADP

Non polar molecules for example
<b>♥</b> glucose
<b>♥</b> sugars
🗳 carbon dioxide 🗳
Polar molecules for example
<b>♥</b> carbon dioxide
<b>♥</b> glucose <b>♥</b>
<b>▼</b> oxygen
Moves down a concentration gradient (from high to law)
<b>▼</b> active
🏺 passive 🗳
Facilitated diffusion a type of
🏺 passive transport 🗳
active transport
Water travels from lower to high
<b>diffusion</b>
active transport
* osmosis *
Solvent and solute particles move to equalize
<b>♥</b> diffusion <b>♥</b>
<b>♥</b> osmosis
passive transport
Only solvent particles move

- **ö** diffusion
- 🛡 osmosis 🛡
- active transport
- passive transport

Used to export bulky molecules

- endocytosis
- 🏺 exocytosis 🗳
  - \* pinocytosis

Used to import substance

- 🏺 endocytosis 🗳
  - exocytosis
  - phatocytosis

Cell drinking

- phagocytosis
- 🏺 pinocytosis 🗳
  - exocytosis

All organisms require

- **Ö** DNA
- **\*** RNA
- 🏺 energy 🗳

Break down a complex molecules

- \* anabolism
- metabolism
- 🍎 catabolism 🍎

Series of chemical reaction

🏺 metabolism 🗳

* anabolism
<b>♥</b> catabolism
The energy currency of cells
<b>▼</b> ADP
<b>♥</b> ATP <b>♥</b>
<b>♥</b> AQD
Enzymes have unique shapes
<b>▼</b> 3d <b>▼</b>
Chapter 4
احياء تجميع ٤
ch4
The Fundamental function of cellular respiration??
Releases CO2-
Releases O2-
Generating ATP <b>√</b> -
Generating ADP-
water split to provide ??
O2 only -
O2 & electrons ✓ -
electrons only -
water -
light reaction converted in the ??
Calvin cycle -
thylakoids membrane ✓ -

both -
all is incorrect -
There is stage in photosynthesis ? ?
1-
<b>√</b> 2 -
3 -
4 -
Chlorophyll contain of ??
chlorophyll A and B ✓ -
chlorophyll A , B and C -
chlorophyll A and C -
not of these -
Photosynthesis and cells respiration are ??
Redox ✓ -
reduced -
oxidation -
all ✔✔ -
Cellular respiration release ? ?
lightenergy -
chemical energy ✓ -
both -
CO2 is used used to 2.2
CO2 is reduced to ? ?
plant - sugar <b>√</b> -
water -
water

Water molecules split by?	?
reduced	-
oxidation 🗸	<b>'</b> –
both	۱ -
bsorb excessive light that would damage chlorophyll ?	?
carotenoids <b>√</b>	<b>'</b> –
chlorophyll	-
both	۱ -
photosynthesis	<b>5</b> -
Leaves are green because contain ?	?
carotenoids	-
chlorophyll 🗸	<b>'</b> –
both	۱ -
Chloroplasts contain ?	?
chlorophyll	-
carotenoids	-
both 1+2 🗸	<b>'</b> –
mesophyl	l -
Leaf absorbed sunlight, so it reflected?	?
blue light	t <b>-</b>
read light	t -
green light <b>√</b>	<b>'</b> –
sunlight	t -

light -

Thylakoids are concentrated in a STRUCTURE called??
granum ✓ -
stroma -
both 1 +2 -
membrane -
in the leaf in put output????
Co2, h2o-
H2o , co2-
Co2, o2 <b>√</b> -
O2, co2-
Chloroplasts are found in the mesophyll, ??
Mesophyllis
green pigment -
green tissue <b>√</b> -
leaf -
tree -
Earth's plants produce 160 billion metric TONS of sugar each year through??
photosynthesis ✓ -
cellular respiration -
both -
ATP -
Photosynthesis make organic molecules Sugar Glucose out inorganic molecules ?? materials like-
Oxygen -
carbon dioxide -
water -
<b>√</b> 3+2 -

What of the following are Example for photoAutotrophs (??
bacteria -
bacteria and archae -
plant -
plant and algae ✓ -
Food chain level for Heterotrophs is ??
secondary -
primary -
primary and secondary
secondary and tertiary $\checkmark$ -
Photo autotrophs make their own food by using??
energy -
ATP -
light <b>√</b> -
lighting -
Enzymes also requires for best results ? ?
ATP -
pH <b>√</b> -
hp -
PTS -
Human enzymes function best at ??
°36-
°38-
<b>√</b> °37-
°35-

Heterotrophs can produce organic compounds from inorganic??
arphi
<b>√⊠</b>
Sugar in photosynthesis make of ??
Carbo -
carbon dioxide only -
carbon dioxide and water $\checkmark$ -
water -
Plant need some only (light energy + co2 + h2o) to make ??
food -
sugar <b>√</b> -
water -
fungi -
Begin all food chain ??
photosynthesis 1√ -
gas -
cell -
all correct -
Mitochondria present in ? ?
animal cell -
plant cell -
both <b>√</b> -
chlorophyll -
Chloroplasts are found in ??

mesophyll <b>√</b> -
chlorophyll A -
chlorophyll B -
all -
Mesophyllis ??
blue tissue -
red tissue -
yellow tissue -
green tissue ✓ -
Chloroplasts consists of TWO membrane surrounding an inner room called ??
granum -
chlorophyll -
Thylakoids -
stroma <b>√</b> -
Plant absorbed and reflected green light ??
sunlight <b>√</b> -
white light -
red light -
all -
Absorb excessive light that would damage chlorophyll ??
mesophyll -
cell membrane -
carotenoids <b>√</b> -
all -
O2 actually comes from ??

H2O <b>√</b> -
both -
Water molecules are split apart by oxidation that mean they electron ??
gain -
lose <b>√</b> -
both -
CO2 reduced to ? ?
milk -
water -
protein -
sugar <b>√</b> -
Light reaction light energy is converted to chemical energy and O2 in ? ?
thylakoid membrane <b>√</b> - 1
cell - 2
stroma - 3
granum - 4
Water and the terms of the 2.2
Water splits to provide ? ?
O2 - O2 and electron ✓ -
O2 and protein -
protein -
Produce ATP to use as fuel in ? ?
light reaction -
dark reaction ✓ -

CO2 -

cellular respiration -
The ATP which produce at the first stage uses in ??
Dark reaction <b>√</b>
Light reaction
Kribs cycle
During the Calvin cycle CO2 incorporated into organic compounds a process called ??
carbon oxidation -
carbon reduced -
carbon fixation <b>√</b> -
all -
Light independent reaction can occur in ??
light reaction -
dark reaction -
both <b>√</b> -
Dark reaction happen when ??
light is present -
ATP is present <b>√</b> -
sugar id present -
H2o id present -
احیاء تجمیع ٥
احياء تجميع ٥
ch5
Stage 3 of cellular respiration happen in ??
Innerspace -

Inner membrane <b>√</b> -
Inter membrane-
The scientist who discover the krebs sycle is: ??
Tom krebs-
Michael krebs-
Hans krebs <b>√</b> -
Adolf krebs-
The outputs of the first stage in cellular respiration are ??
ATP+2 pyruvate + 2NADH ✓2-
ATP+2 pyruvate + 2NADPH2-
ATP+2 pyruvate + 2NADH1-
ATP+1pyruvate + 2NADH2-
How many C atom does pyruvate have??
2-
<b>√</b> 3-
6-
None-
In cellular respiration glucose H+ atom converted to??
H2O-
CO2 <b>√</b> -
Glucose -
ATP-
Cellular respiration equation is helpful to show the changes in atom ??
O2-

Interspace -

C-
H2o-
In what stage the co2 is considered as producers in the cellular respiration ??
Kribs cycle <b>√</b> -
Glycolysis -
Oxidation phosphorylation -
Light independent reaction-
NADH participates in??
And NADPH participates in
catabolic reaction , an abolic reaction $\checkmark$ -
anabolic reaction, catabolic reaction -
Militardi and dia anno anto ATD for an 2 2
Mitochondria generate ATP from ? ?
light -
water - sugar <b>√</b> -
all -
an -
Cells breakdown glucose to ? ?
co2 -
water -
water and o2 -
co2 and water <b>√</b> -
ATP for work is exist as ? ?
light -

H+ **√**-

heat <b>√</b> -
pigment -
Mitochondria contain ? ?
cellular respiration -
respiration enzymes ✓ -
both -
In respiration- breathing supplies to our cell and removes ? ?
o2,2-
o2, co2 <b>√</b> -
co2 , o2 -
water, sugar -
Your body require a continuous supply of energy just to ??
sleep -
stay away -
stay alive ✓ -
play -
Your body require a continuous supply of energy just to ??
keep the heart pumping 🗸 -
to breath ✓ -
stay alive <b>✓</b> -
to maintain body temperature <b>√</b> -
Your brain require a large quantity of glucose that EQUAL??
g 100 -

sugar -

g <b>√</b> 120 -
The energy units are ??
ampere -
glucose -
kilocalories ✓ -
all -
Is a quantity of heat to rises the temperature of .1 kg of water to 1°C??
Kcal <b>√</b> -
lighting -
speed enzymes -
chemical energy -
احياء٦
ch6
How pairs of chromosomes in human ??
46-
<b>√</b> 23-
32-
34-
Wich of the following are necessary for chromosomal organization ??
Nucleosome -
Chromosome -

220 -

g 300 -

Chromatin <b>√</b> -
DNA-
DNA is:??
polynucleotide 1-
polynucleotide ✓ 2-
polynucleotide 3-
DNA replication happen in : ? ?
One direction -
Two directions <b>√</b> -
Three directors-
DNA replication proceed because : 2.2
DNA replication proceed happen : ? ?  In several times-
One time -
simultaneously <b>√</b> -
3illialtaneously •
The basic unit of chromatin is: ??
Chromosome -
Nucleotide-
Nucleosome <b>√</b> -
Nucleus-
DNA genetic information carried by ??
Chromosome -
Chromatin -
mRna <b>√</b> -
The new DNA molecules are similar to the parental DNA molecule: ??

%70-

%100-

**√**%50-

%90-

Cells import fluids by

- A.phagocytosis
- B.pinocytosis ✓
- C.Exocytosis
- D.passive transport

ميزات الانتشار - البلاستيدات الخضراء ماهي وظائفها -الميدكوندريا و البناء الضوئي - واغلب الاسئلة ٦٠٪ من البناء الضوئى شابتر ٦

ATP is : بروتین او انزیم او کونزیم ومافتکر الخیار الرابع

النسخ والترجمه للdna

which of the following organisms is photoautotrophic?

- A.Archaea
- **B.Fungi**
- C.plants and algae ✓
- P.All eukaryotic organisms جاني انو مصنع البروتين هوا الرايبسوم الوتحصل الخلية على الطاقه من الميتوكندريا وايش العنصر المشترك بين الخليه الحيوانه

جاني انو مصنع البروتين هوا الرايبسوم ، وتحصل الخليه على الطاقه من الميتوكندريا وايش العنصر المشترك بين الخليه الحيوانه والنباتيه ، برضو جاني تعرفين لنوعين من الابتلاع الخلوي ، جاني عن تفاعل الظلام ، جاتني اشياء كثيره عن جزئيه البناء الضوئي ، جاني عن الكاروتين التعريف ، برضو جاني انو اشياء في الخليه النباته غير موجوده في الخليه الحيوانيه .

محولات الطاقه ؟ بلاستيدات الخضرا والميتوكندريا مصنع الاغشيه ؟

منتج دورة كالفن إجاني ثاني اكسيد الكربون والجلاكوز ؟ حطيت الجلامكوز لانى ثانى اكسيد الكربون مدخل

المواد اللتي تدخل بسهولة عبر الفشاء ولاتحتاج الى طاقه؟؟

المرحله التي تحدث قريبا بعد امتصاص البلاستيدة للضوء؟ المرحلة الأولى

### Chapter3

## 1-Which of the following type of microscope is used to study the internal structure of the cell?

- a) Light Microscope
- b) Scanning electron microscope
- c) Transmission electron microscopes
- d) None of the above

### 2-Which one of the following is found in animal cells?

- a) Central vacuole
- b) cell wall
- c) Lysosome
- d) Chloroplast

### 3-Ribosomes are synthesized in

- a) Nucleolus
- b) Nucleus
- c) endoplasmic reticulum (ER)
- d) Golgi apparatus
- 4-Which one of the following organelles can digest macromolecules such as proteins, and use enzymes to recycle the damaged organelles?
  - a) Lysosome
  - b) Ribosome
  - c) Nucleus
  - d) Mitochondria
- 5- Which one of the following are Energy-Converting Organelles?
  - a) Mitochondria& Ribosome
  - b) Ribosome& Chloroplasts
  - c) Mitochondria & Chloroplasts
  - d) Ribosome& Mitochondria
- 6- Extracellular matrix (ECM) is made up of
  - a) Cellulose
  - b) collagen fibers
  - c) fats
  - d) Glucose

7- Which one of the following organelles is not a part of the endo-membrane system?			
<ul><li>a) Lysosome</li><li>b) Ribosome</li></ul>			
c) Chloroplast			
d) Golgi apparatus			
8is one of the Smooth ER functions			
a) lipids synthesis			
b) Distribution of manufactured proteins			
c) protein synthesis			
d) None of the above			
9-The cells of Pancreas that secrete digestive enzymes have an abundance of, which receive & pack these enzymes into transport vesicles to release their contents outside the cells.			
a) Ribosome			
b) Chloroplast			
c) Golgi apparatus			
d) Mitochondria			
10are the sites of protein synthesis.			
a) Mitochondria			
b) Lysosomes			
c) Ribosomes			
d) Golgi apparatus			

## Chapter 4

1- The	e Cell membrane phospholipids have a head and twotails.
a)	Hydrophilic& hydrophobic
,	Hydrophobic& hydrophilic
	Hydrophilic& hydrophilic
d)	Hydrophobic& hydrophobic
2- The than o	e cell membrane allows some substances such as to cross more easily others.
a)	Oxygen
b)	Carbon dioxide
c)	Water
d)	All of the above
3- Wh	ich one of the following mechanisms is used to export bulky molecules, such as
	ns or polysaccharides?
a)	Endocytosis
	Exocytosis
c)	Diffusion
d)	Osmosis
4	is a biological process, which uses ATP to pump molecules
	NST/UP the concentration gradient ( molecules move from a low concentration of
	to high concentration of solute).
a)	Passive Transport
	Active Transport
c)	Osmosis
d)	Endocytosis
	is the net movement of molecules from a region of higher concentration to a of lower concentration.
a)	Passive transport
b)	Osmosis
c)	Active transport
d)	Pinocytosis

### 6- Which statement is CORRECT about osmosis?

- a) It occurs only across a semi-permeable membrane
- b) Water travels from a solution of lower solute concentration to a solution of higher solute concentration
- c) A+b
- d) None of the above

### 7-Which one of the following statement is TRUE about diffusion?

- a) It involves movement of solvent molecules
- b) It occurs when particles move from a region of lower concentration to a region of higher concentration
- c) It does not require a semi-permeable membrane
- d) All of the above

### 8- To block the enzyme action, the enzyme's active site interacts with

- a) the enzyme's substrate
- b) competitive inhibitors
- c) non-competitive inhibitor
- d) All of them

### 9- The study of energy relationships and their transformation is called

- a) Photosynthesis
- b) Metabolism
- c) Thermodynamics
- d) Oxidation

### 10- ATP is composed of adenine (a nitrogenous base), ribose (a five-carbon sugar), and

•••••

- a) three phosphate groups
- b) two phosphate groups
- c) one phosphate groups
- d) none of the above

## Chapter 5

1.	which of the following statements is FALSE?
a.	Krebs cycle is also called citric acid cycle
	Krebs cycle occurs in the cytoplasm
	Krebs cycle produces 2 ATP
	Krebs cycle supplies the third of cellular respiration with electrons
2.	The energy currency of the cell is
a.	Glucose
b.	ATP
C.	Protein
d.	lipid
2	Glycolysis bogins respiration by breaking
Э.	Glycolysis begins respiration by breaking
a.	ATP
b.	Pyruvate
C.	Glucose
d.	Protein
4.	Cellular respiration can produce up toATP molecules for each glucose molecule.
a.	23
	13
C.	<mark>31</mark>
d.	20
5.	Cramps during exercise are caused by:
a.	Alcohol fermentation
	Lactic acid fermentation
	Glucose
	Glycolysis
6.	The average adult human needsof energy per day.
a.	2200 kj
b.	2200 km
C.	2200 kcal
d.	2200 kg

7.	Which of the	following is	necessary for	oxidative	phosphorylation	to
	occur?					

- a. ATP
- b. Oxygen
- c. Carbon dioxide
- d. Water

#### 8. During cellular respiration, glycolysis occurs in:

- a. Cytoplasm
- b. Thylakoids
- c. Chloroplast
- d. mitochondria

#### 9. Fats are excellent sources of energy because they

- a. Contain many hydrogen atoms
- b. yield more than twice as much ATP per gram than a gram of carbohydrate
- c. Yield more than twice as much ATP per gram than a gram of protein.
- d. All of the above

#### 10. Which one of the following are the products of the Krebs cycle?

- a. ATP
- b. NADH
- c. FADH
- d. All of the above

#### 11. In eukaryotic cells, the ATP is produced by

- a. Mitochondria
- b. Nucleus
- c. Cytoplasm
- d. Chloroplast

# 12. Single-celled microorganisms that not only can use respiration for energy but can ferment under anaerobic conditions are called:

- a. Yeasts
- b. molds
- c. Bacteria
- d. Protists

#### 13. The final electron acceptor in aerobic respiration is:

- a. CO<sub>2</sub>
- b. O<sub>2</sub>
- c. NAD+
- d. ATP

### 14. Which one of the following processes produces the most ATP?

- a. Glycolysis
- b. Oxidative phosphorylation
- c. Fermentation
- d. Krebs cycle

### 15. ATP can be generated from \_\_\_\_\_.

- a. Lipids
- b. Carbohydrates
- c. Proteins
- d. All of them

## 16. The role of cellular respiration is

- a. Breaking down glucose to make ATP
- b. Forming glucose from carbon dioxide and water
- c. Forming water from glucose
- d. consuming ATP to form oxygen

1. The first stage of photosynthesis takes place in the......

a.	Inylakolds
b.	Grana
C.	Stomata
d.	Stroma
2.	Which of the following is not required during photosynthesis
a.	Water
	Carbon dioxide
C.	Oxygen
d.	Light
3.	During what stage of photosynthesis is O <sub>2</sub> produced?
a.	Carbon fixation
b.	Light – dependent reactions
C.	Light – independent reactions
d.	Calvin cycle
4.	In the process photosynthesis
a.	Carbon dioxide and water are oxidised
b.	Carbon dioxide is reduced and water is oxidized
C.	Carbon dioxide and water are reduced
d.	Carbon dioxide is oxidized and water is reduced
5.	Both carotenoids and chlorophyll are
a.	Coenzymes
b.	
	Pigments
d.	Cofactors
6.	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

7.	In the light reactions, solar energy is converted to chemical energy stored in both ATP and
a.	AMP
b.	ADP
	NADPH
d.	NADH
8.	The Calvin cycle occurs in theof the chloroplast.
<mark>a.</mark>	<u>Stroma</u>
b.	Stoma
c. d.	Thylakoid The inner mitochondrial membrane
u.	
10.	In the leaf, chloroplasts are concentrated in the
a.	Epidermis
b.	Veins
	Mesophyll Mesophyll
d.	Thylakoids
11.	In the leaf, the CO <sub>2</sub> enters and the oxygen released through
a.	Stroma
b.	Stoma Stowa
C.	Granum
d.	Epidermis
12.	Plants are
a.	Autotrophs
	Prototrophs
C.	Heterotrophs
d.	Auxotrophs
13.	The oxygen released during photosynthesis comes from:
a.	Carbon dioxide
b.	Carbon dioxide and water
C.	Water Control of the
d.	Glucose

- 14. What energy-rich organic compound is produced as a result of the Calvin cycle?
- a. ATP
- b. Sugar
- c. NADPH
- d.  $O_2$
- 15. The chloroplast is the site of photosynthesis in a plant cell. It is enclosed by \_\_\_\_ membranes.
- a. One
- b. Two
- c. Three
- d. Four

## 16- In plant cell, leaves are

- a. Responsible for storage
- b. Responsible for photosynthesis
- c. Responsible for support
- d. None of the above

#### 1-What is the function of DNA?

- a) to assist in cell division
- b) to control the heredity
- c) to help in the synthesis of protein
- d) All of them

#### 2- Nucleic acids are composed of

- a) Nucleotides
- b) Only Cytosine
- c) Only ribose
- d) None of them

#### 3- Which one of the following base is found in RNA but not DNA?

- a) Cytosine
- b) Adenine
- c) Uracil
- d) Thymine

#### 4- Each nucleotide in a DNA molecule consists of -----

- a) a phosphate group, a hexose sugar and a nitrogeneous base.
- b) a sulfonyl group, a pentose sugar, and a nitrogeneous base.
- c) a phosphate group, a pentose sugar and a nitrogeneous base.
- d) a phosphate group, glucose, and a nitrogeneous base.

#### 5- Chromatin is a complex of

- a) DNA and protein
- b) RNA with protein
- c) Only DNA
- d) DNA and fat

## 6- What is the process called when messenger RNA is synthesized to match a certain gene?

- a) Replication
- b) Translation
- c) Transcription
- d) None of the above

## 7- The Product of translation is

- a) Glucose
- b) mRNA
- c) protein
- d) lipids

#### 1- Red blood cells are type of......

- a) Nervous tissue
- b) Connective tissue
- c) Muscle tissue
- d) Epithelial tissue

#### 2- Ligaments connect

- a) Ends of two bones
- b) Muscles to bone
- c) Epithelia to underlying tissues
- d) None of them

#### 3- Which of the following has a single layer but appears stratified?

- a) Stratified squamous epithelium
- b) Pseudostratified columnar epithelium
- c) Simple squamous epithelium
- d) Simple cuboidal epithelium

# 4-Which of the following tissue does cover the outside of the body and line organs and cavities within the body?

- a) Muscle tissue
- b) Epithelial tissue
- c) Nervous tissue
- d) Connective tissue

#### 5-Columnar epithelium is found in

- a) Kidney
- b) Liver
- c) Capillaries
- d) Small intestine

#### 6-Cardiac muscle is

- a) Involuntary
- b) Voluntary
- c) A+b
- d) None of them

## 7-What type of muscle is responsible for contractions of the stomach and small intestine?

- a) Skeletal muscle
- b) Smooth muscle
- c) Cardiac muscle
- d) All of them

8-Which of the following connective tissue is responsible for oxygen and nutrients transportation?

- a) Bones
- b) Adipose
- c) Blood
- d) Cartilage

	1	_	organ that has the function of cleaning the blood is called
	a.	Heart	
	b.	Liver	
	c.	Lungs	
	d.	Pancreas	
2			helps regulate the glucose level in the blood stream
	a.	Heart	
	b.	Liver	
	c.	Lungs	
	d.	Pancreas	
<b>3-</b> ]	Γhe		is located near the junction of small intestine and colon.
	ล	Gall bladder	
		Pancreas	
		Appendix	
		Spleen	
	u.	Spicen	
<b>4-</b> _			_ emulsifies fat before they get attacked by pancreatic enzymes.
	a.	Insulin	
	b.	Bile	
	c.	Adrenaline	
	d.	Gastrin	
5- T	Γin	y finger like <sub>l</sub>	projections in the small intestine.
	a.	Villi	
		Alveoli	
		Pilli	
	d.	Cilia	
6			is a muscular hollow located between the esophagus and the small
inte	esti	ne.	
	a.	Gall bladder	
		Liver	
	c.	Stomach	
	d.	Small intesti	ne

7- Sma	all glands that begin digestion of starch.
a.	Adrenal
b.	Thyroid
	Pineal
d.	Salivary
8- An	enzyme that begins the chemical digestion of proteins.
	Pepsin
	Lipase
	Amylase
d.	Lactase
9- Sto	mach cell wall secrete hydrogen & chloride ions, which combine to make
	Nitric acid
	Citric acid
	Hydrochloric acid Acetic acid
a.	Acetic acid
10- A	semi-liquid mass of partially digested food in the stomach
a.	Bile
b.	<u>Chyme</u>
c.	Feces
d.	Bolus
11	is a muscular tube connects between pharynx and stomach.
a.	Small intestine
b.	Trachea
c.	Larynx
d.	Esophagus
12- N	utrient molecules enter the body cells by
a.	Ingestion
	Digestion
	Absorption
d.	Elimination

13-	$\mathbf{W}$	hich of the following are meat-eaters?
	b. c.	Herbivores Omnivores Producers Carnivores
14-		contributes to blocked blood vessels and high blood pressure.
	b. c.	HDL LDL DHL DSL
		nimals cannot produceof the 20 amino acids named essential acids.
	b. c.	Six  Eight Ten Twelve
		nis organ produces a digestive juice that contains a wide array of enzymes to down carbohydrate and protein in food.
	b. c.	Liver stomach gall bladder Pancreas

1.	All gases exchanged between air and blood in mammals occurs across the walls of the
a.	Bronchi
b.	Bronchioles
C.	Alveoli
d.	Trachea
2.	The most common gas found in air is
a.	Oxygen
	Hydrogen
C.	Carbon dioxide
d.	Nitrogen Nitrogen
3.	Which of the following animals have tracheal system that provides direct exchange between the air and body cells?
a.	Reptiles
b.	Amphibians
C.	Insects
d.	Fish
4.	The majority of carbon dioxide is transported in the blood :
a.	attached to hemoglobin
	bound to oxygen
	as bicarbonate ions in the red blood cells
d.	dissolved in the plasma
5.	Mollusks have
a.	no specialized respiratory organ
b.	lungs
C.	<mark>gills</mark>
d.	tracheal system
6.	The exchange of gases between interstitial fluid and the blood occurs in the:
a.	Arteries
b.	Capillaries Capillaries
C.	Veins
d.	Arterioles

a k	The urge to Innale results from:  a. Rising PCO <sub>2</sub> b. Rising PCO <sub>2</sub> c. Falling PCO <sub>2</sub> d. Falling PO <sub>2</sub>
	During exhalation in humans, air moves from the bronchus into the:
a.	Bronchioles
b. c.	Alveoli Pharynx
d.	Trachea
9.	Diffusion occurs when molecules move from an area of
a.	High concentration to an area of low concentration.
b.	High concentration to an area of high concentration
C.	Low concentration to an area of low concentration
d.	Low concentration to an area of High concentration
10.	During exhalation the chest contracts and the diaphragm moves
a.	downward
b. c.	upward to the left
d.	to the right
11.	The heart right side pumps blood to the lungs.
a.	nitrogen-poor
b.	nitrogen-rich
C.	oxygen-rich
<mark>d.</mark>	oxygen-poor
12.	Gases in the tissues havethan in the blood
a.	more CO <sub>2</sub> and less O <sub>2</sub>
b.	more O <sub>2</sub> and less CO <sub>2</sub>
C.	more N <sub>2</sub> and less CO <sub>2</sub>
d.	more O <sub>2</sub> and less N <sub>2</sub>

13.	Hemoglobin in red blood cells carries up to 4 O <sub>2</sub> molecules.
a.	One
b.	Two
C.	Three
d.	Four Four
14.	In the body tissues, blood
a.	drops off CO <sub>2</sub> and picks up O <sub>2</sub>
b.	drops off N <sub>2</sub> and picks up CO <sub>2</sub>
C.	drops off O <sub>2</sub> and picks up CO <sub>2</sub>
d.	drops off O <sub>2</sub> and picks up N <sub>2</sub>
15.	is an iron compound which constitutes the pigment portion of the hemoglobin molecule.
a.	Hemolymph
b.	Heme
C.	Hematocrit
d.	Hemorrhoid