تم تحميل هذا الملف من موقع المناهج الإماراتية



الملف أسئلة هيكل امتحان وزاري الفصل الثالث مع الحل

موقع المناهج ← المناهج الإماراتية ← الصف الحادي عشر المتقدم ← علوم ← الفصل الثالث

روابط مواقع التواصل الاجتماعي بحسب الصف الحادي عشر المتقدم









روابط مواد الصف الحادي عشر المتقدم على تلغرام

<u>الرياضيات</u>

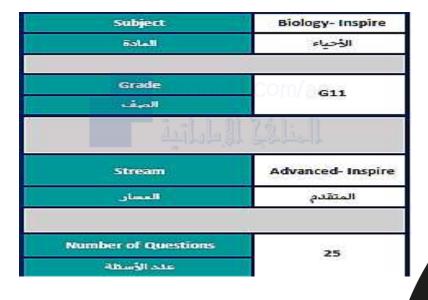
اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المزيد من الملفات بحسب الصف الحادي عشر المتقدم والمادة علوم في الفصل الثالث		
ملخص الجهاز العضلي	1	
ملخص أحياء	2	
دليل الوحدة 10 الطاقة الخلوية	3	
دليل الوحدة 20 التكاثر في النباتات	4	
اختبار عملي	5	

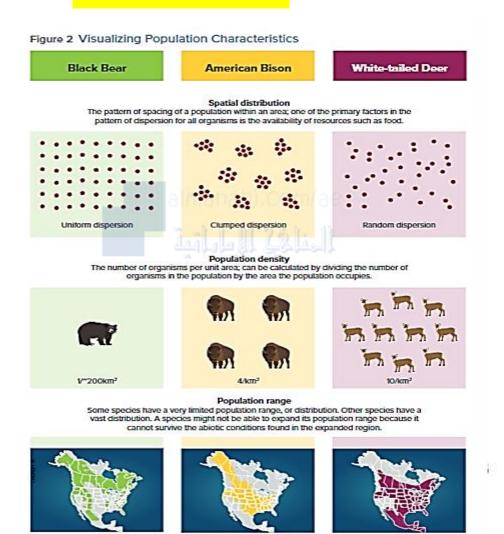
Term 3- EOT BIOLOGY EXAM REVISION-11ADV (INSPIRE)





1, 2 & 21 Explain that ecosystems are dynamic in nature and that their characteristics can vary over time (Figure 2, 8 & 9)

FIGURES BELOW



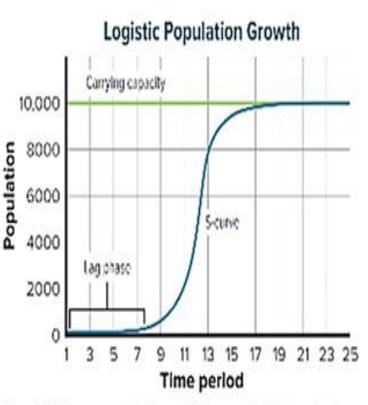


Figure 8 When a population exhibits growth that results in an S-shaped graph, it exhibits logistic growth. The population levels off at a limit called the carrying capacity.



Figure 9 Locusts, which are an example of r-strategists, produce many offspring in their short lifetimes.

What term is used to describe the number of individuals moving into a population?

- A. emigration
- B. imitation
- (C.)immigration
- D. migration

What is population density?

- A. pattern of spacing of a population in an area
- B. number of organisms in an area
- C. characteristics of a population
- D. manner in which a population grows

Which factor can limit the carrying capacity of a population?

- A. emigration
- B. predation
- C) available nutrients
 - D. extreme temperatures

An ecologist estimates a population density of 2.3 lemmings per square meter of tundra. What would be the approximate number of lemmings over 1000 square meters of tundra?

- A. 0.23
- **B**. 23
- C. 230
- D.2300

Which organism is the best example of a *k*-strategist?

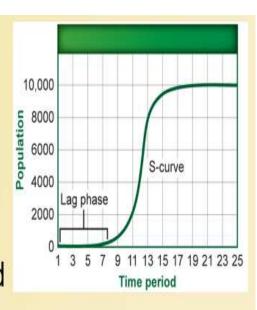
- A. wolf
- B. grasshopper
- C. rabbit
- D) whale

The ecologist finds that over a 1000m² plot of tundra, lemmings tend to concentrate in clumps in drier areas. What is the term for this pattern of spacing?

- A. density
- (B.)dispersion
 - C. logistic spacing
 - D. spatial distribution

Why does the population growth level off at 10,000?

- A. Biotic factors have made survival difficult.
- B. The population has reached its carrying capacity.
- C. Density-independent factors have slowed the growth of the population.
- D. Immigration into the population has reached the maximum limit.



Brine shrimp are able to survive only in certain lakes that have a very high salt concentration. Which is the correct population characteristic of brine shrimp?

- A. It is density-dependent.
- B. It is limited by biotic factors.
- C. It has a limited spatial distribution.
 - D. It is randomly dispersed in the environment.

1, 2 & 21 Explain that ecosystems are dynamic in nature and that their characteristics can vary over time

POSSIBLE QUESTIONS BELOW

Which is not used to describe a population of grizzly bears in Canada?

- O A) demographic history
- O B) geographic distribution
- O C) population range
- O D) population density

Correct Answer

A) demographic history

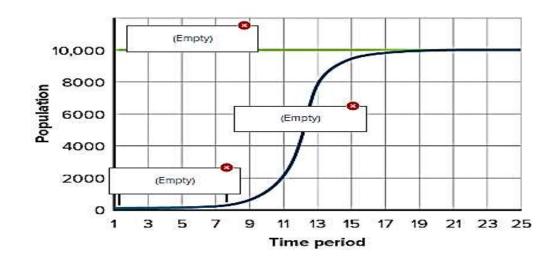
Which organism follows an r-strategy for reproduction?

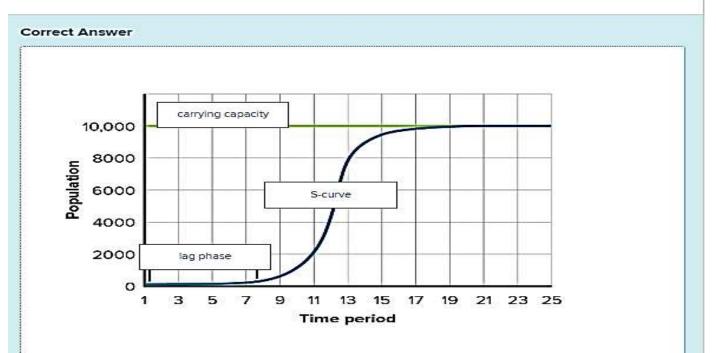
- O A) human
- O B) mayfly
- O C) robin
- O D) zebra

Correct Answer

B) mayfly

Label the graph using the terms carrying capacity, S-curve, and lag phase.





1, 2 & 21 Explain that ecosystems are dynamic in nature and that their characteristics can vary over time

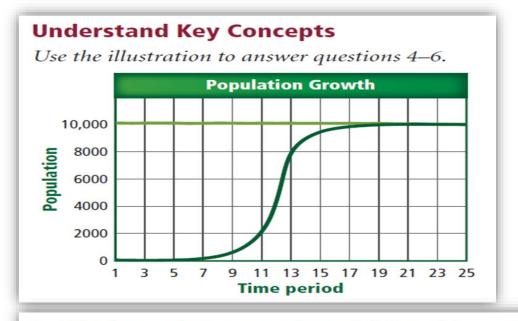
POSSIBLE QUESTIONS BELOW

*Which strategy is considered as an adaptation for living in an environment where fluctuation in biotic or abiotic factors occur?

- A. k-strategy reproductive pattern.
- (B.) r-strategy reproductive pattern.
- C. a low mortality rate.
- D. high mortality rate

*Which strategy involve a larger organism that has a long life span, produces few offspring, and whose population reaches equilibrium at the carrying capacity?

- (A.) k-strategy reproductive pattern.
- B. r-strategy reproductive pattern.
- C. a low mortality rate.
- D. high mortality rate



- **4.** Which population growth model does this graph illustrate?
 - **A.** exponential growth
 - B. lag phase
 - C. logistic growth
 - **D.** straight-line growth
- **A.** carrying capacity **C.** geometric growth **B.** exponential growth **D.** straight-line growth
- **6.** What do the time periods 1–7 represent?
 - A. acceleration phase C. exponential growth
 - **B.** carrying capacity **D.** lag phase

1, 2 & 21 Explain that ecosystems are dynamic in nature and that their characteristics can vary over time POSSIBLE QUESTIONS BELOW

- 7. If angelfish produce hundreds of young several times a year, which statement below is true?
 - **A.** Angelfish have a *k*-strategy reproductive pattern.
 - B Angelfish have an *r*-strategy reproductive pattern.
 - **C.** Angelfish probably have a low mortality rate.
 - **D.** Angelfish provide a lot of care for their young.
- **8.** If an aquarium holds 80 L of water and contains 170 guppies, what is the approximate density of the guppy population?
 - A. 1 guppy/L

C. 3 guppies/L

B. 2 guppies/L

D. 4 guppies/L

12. What is the dispersion pattern of herding animals, birds that flock together, and fish that form schools?

A clumped

C. uniform

B. random

D. unpredictable

3, 4 & 5 Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales (Figure 12 & 14)

FIGURES BELOW

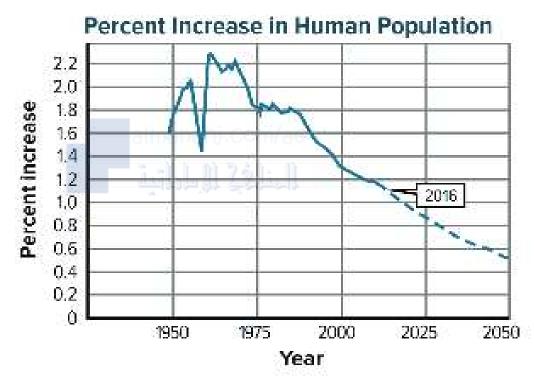


Figure 12 This graph shows the percent increase in the global human population using data from the late 1940s through 2016 and the projected percent increase to 2050.

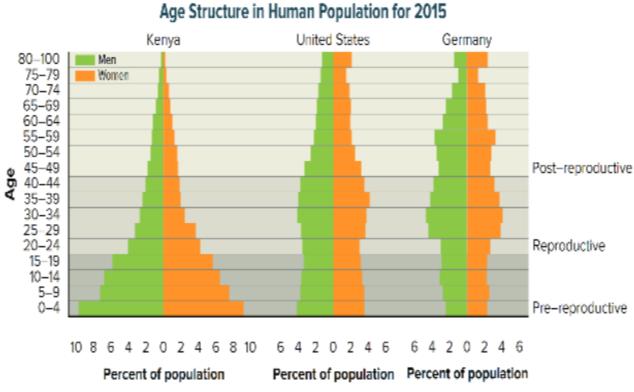
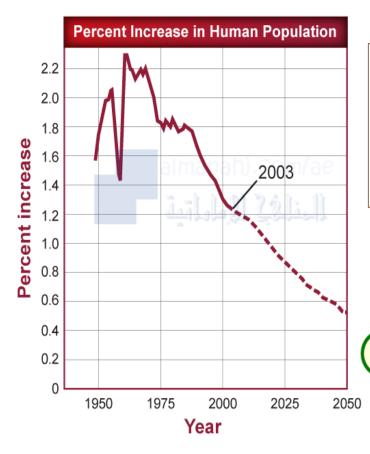


Figure 14 The relative numbers of individuals in pre-reproductive, reproductive, and post-reproductive years are shown for three representative countries.

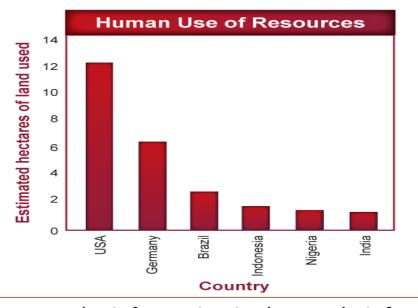
3, 4 & 5 Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales

POSSIBLE QUESTIONS BELOW



Which is a primary reason for the decline in the percent growth of the human population after 1962?

- A. decreased agriculture
- B. famine and wars
- C. setbacks in medicine
- D. voluntary population control



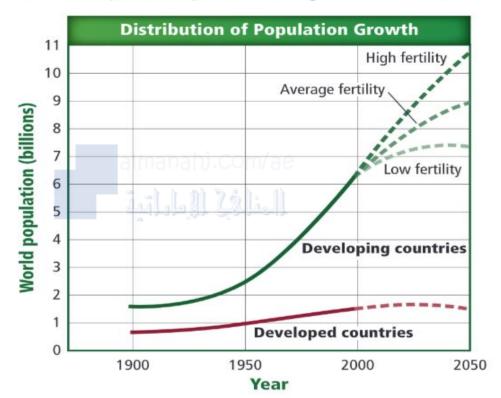
Based on the information in the graph, infer which statement accurately represents the information provided.

- A. India has very little land for farming.
- B. Germany is smaller per acre than the United States.
- C. More land is used to support an individual in the United States.
- D. A person in Indonesia requires more land than a person in Brazil.

3, 4 & 5 Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales

POSSIBLE QUESTIONS BELOW

Use the graph below of the growth of the human population through history to answer questions 26 and 27.



26. What is the projected population of developed untries by 2050?

A. 1.5 billion

B. 7.3 billion

C. 9 billion

D. 10.5 billion

27. What is the approximate population difference between developing countries that have low fertility rates and developing countries that have high fertility rates in 2050?

A. 1.5 billion

C. 3.2 billion

B. 1.7 billion

D. 9 billion

29. Japan had a birthrate of eight and a death rate of nine in 2008. What was the PGR?

A. 0.01 percent

C. –1 percent

B. 1 percent

D. -10 percent

30. Georgia, a country in western Asia, had a birthrate of 11 and a death rate of 10 in 2008. What was the PGR of Georgia in that year?

A. 1 percent

C. 1.1 percent

3. 0.11 percent

D. 11 percent

6, 7, 12 & 22 Explain the malfunctioning of biological systems based on hypotheses such as Koch's postulates, or on scientific examples of infectious diseases, their causes, transmission and treatments, and non-infectious diseases (Table 1; Figures 2 & 17)

TABLE & FIGURES BELOW

Table 1 Human Infectious Diseases

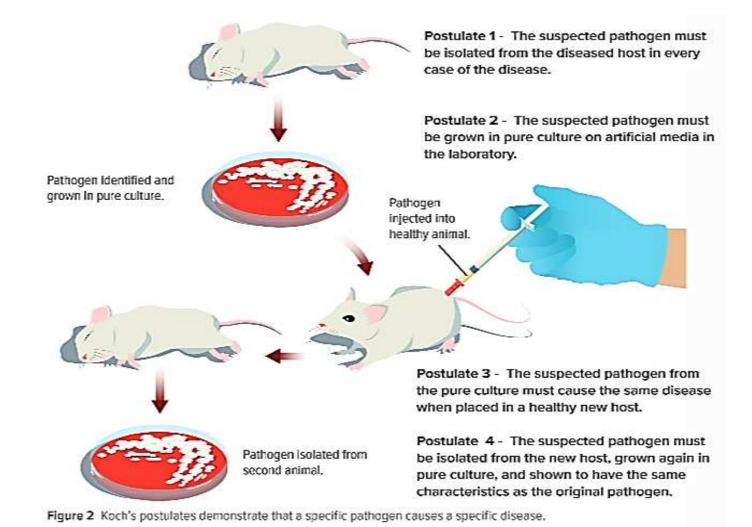
Disease	Cause	Affected Organ System	How Disease is Spread
Tetanus / a e	Bacterium	Nervous system	Soil in deep puncture wound
Strep throat	Bacterium	Respiratory system	Droplets/direct contact
Lyme disease	Bacterium	Skeletal and nervous systems	Vector (tick)
Chicken pox	Virus	Skin	Droplets/direct contact
Rabies	Virus	Nervous system	Animal bite
Influenza (the flu)	Virus	Respiratory system	Droplets/direct contact
Hepatitis B	Virus	Liver	Direct contact with exchange of body fluids
Giardia	Protozoan	Digestive tract	Contaminated water
Malaria	Protozoan	Blood and liver	Vector (mosquito)
Athlete's foot	Fungus	Skin	Direct contact or contaminated objects

6, 7, 12 & 22 Explain the malfunctioning of biological systems based on hypotheses such as Koch's postulates, or on scientific examples of infectious diseases, their causes, transmission and treatments, and non-infectious diseases (Table 1; Figures 2 & 17)

TABLE & FIGURES BELOW CONT'D



Figure 17 The large knobs and deformatics of these fingers are due to rheumatoid arthritis, an autoimmune disease.



6, 7, 12 & 22 Explain the malfunctioning of biological systems based on hypotheses such as Koch's postulates, or on scientific examples of infectious diseases, their causes, transmission and treatments, and non-infectious diseases

POSSIBLE QUESTIONS BELOW

Which of these involves the fourth step in Koch's postulates?

- A) suspected pathogen isolated from initially diseased host
- B) suspected pathogen placed in healthy new host
- C) pathogen in culture has same characteristics as original pathogen
- D) diseased host is given antibiotics

Correct Answer

C) pathogen in culture has same characteristics as original pathogen

3. Which is the most common way that humans acquire an infectious disease?





🔀 mosquito bites

infected humans CORRECT

- 1. Which is a disease that has a large outbreak in an area and afflicts many people?
- A epidemic correct
- endemic
- pandemic
- reservoir
- 2. Which scientist established a method for determining whether a microorganism caused a specific disease?
- A Koch



💢 Hooke



6, 7, 12 & 22 Explain the malfunctioning of biological systems based on hypotheses such as Koch's postulates, or on scientific examples of infectious diseases, their causes, transmission and treatments, and non-infectious diseases

POSSIBLE QUESTIONS BELOW

4. Which type of disease transmission occurs when a mosquito bites a human?

1. Which autoimmune disease can be indicated by large knobs on joints and deformities of joints?

airect contact

sion object transmission

air transmission

vector transmission CORRECT

5. In autoimmunity, which attacks the body's own proteins?

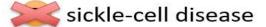


c antibodies



antihistamines

🔀 tetanus



c rheumatoid arthritis CORRECT



Which describes the cause of an infectious disease?

- A) a pathogen that causes the immune system to fail
- B) a pathogen that disrupts the body's homeostasis
- O C) a vector that causes the immune system to fail
- D) a vector that disrupts the body's homeostasis

Correct Answer

B) a pathogen that disrupts the body's homeostasis

6, 7, 12 & 22 Explain the malfunctioning of biological systems based on hypotheses such as Koch's postulates, or on scientific examples of infectious diseases, their causes, transmission and treatments, and non-infectious diseases

POSSIBLE QUESTIONS BELOW

B) sick family returning from a foreign country

Willen	is a carrier of athlete's foot disease?
C	A) a person with the disease who does not have symptoms
(B) a shower floor containing the infectious fungus
C	C) the environmental location where the fungus originated
C	D) the type of fungus that causes the disease
Correc	t Answer anah).Com/ae
4	person with the disease who does not have symptoms
A) a	
A) a	person with the disease who does not have symptoms
A) a Which of the	person with the disease who does not have symptoms ese scenarios could be a direct cause of a disease becoming a pandemic?
A) a Which of the	person with the disease who does not have symptoms ese scenarios could be a direct cause of a disease becoming a pandemic? sick child attending school

	isease cannot be treated with an antibiotic?
0	A) giardia
0	B) gonorrhea
0	C) influenza
0	D) strep throat
Correct	Answer
C) inf	luenza

8, 9 & 10 Explain the physiology of immune system and its functions and the importance of B and T cells (Figures 10, 11 & 12)

FIGURES BELOW

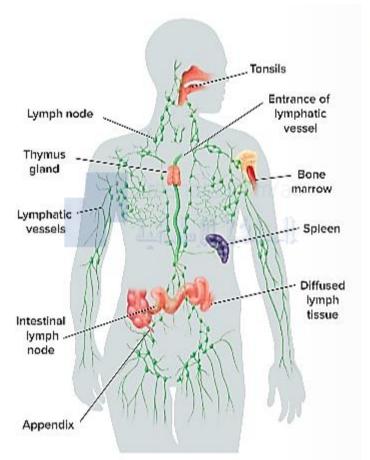
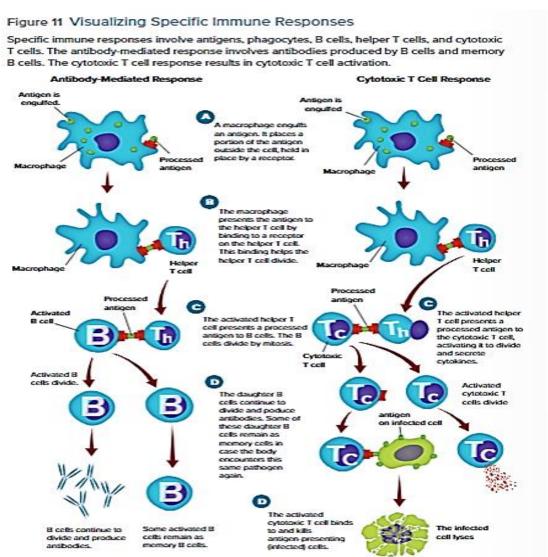


Figure 10 The lymphatic system contains the organs involved in the specific immune response.



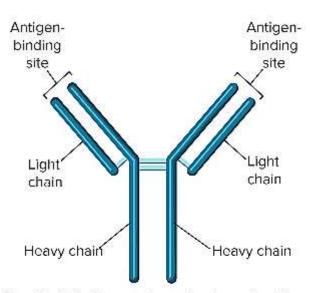


Figure 12 Antibodies are made up of two types of protein chains—heavy and light chains.

Which white blood cells are the antibody factories?

- A.B cells
- B. T cells
- C. cytotoxic T cells
- D. macrophages
- *A foreign protein that enters the body is an:
 - 1. antibiotic.
- 2. antigen.
 - 3. antibody.
 - 4. anti-inflammatory.
- *Anything that triggers an immune response is a/n
 - 1.lymph cell
- ✓ 2.antigen
 - 3.antibody
- 4.neutrop

Which lymphatic organ stores blood and destroys damaged blood cells?

- A. lymph nodes
- B. tonsils
- C. spleen
 - D. thymus

How are most viral diseases fought?

- A. with antibiotics
- B. with antiviral drugs
- C. with chemical agents
- D by the body's immune system

8, 9 & 10 Explain the physiology of immune system and its functions and the importance of B and T cells

POSSIBLE QUESTIONS BELOW

Sequence B cell and T cell responses. Write the numbers 1–5 next to the activities below to show the order in which they occur.

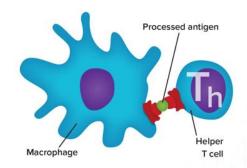
- 2 A processed antigen is displayed on the membrane of the macrophage.
- The activated helper T cell reproduces and attaches to a B cell or cytotoxic T cell.
- _____ A macrophage digests a pathogen.
- The B cell begins to make antibodies and the cytotoxic T cell releases cytokines.
- _____ The macrophage binds with a helper T cell.

What is t	he type of white blood cell that is produced in bone marrow and includes B and T cells?
0	A) antigens
0	B) antibodies
0	C) lymphocytes
0	D) lymph nodes
Correct	Answer
C) lym	phocytes

8, 9 & 10 Explain the physiology of immune system and its functions and the importance of B and T cells

POSSIBLE QUESTIONS BELOW

1. What kind of immune response is demonstrated in the diagram?



genetic



c specific CORRECT



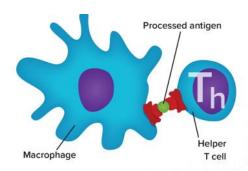
- 5. Where are lymphocytes produced?
- A bone marrow CORRECT





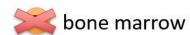


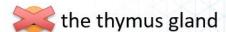
2. To which does the activated helper T cell present its antigen?



a pathogen







What role do cytotoxic T cells play in immune response?

- A) prevents immunization from occurring
- B) binds to processed antigens and B cells
- C) produces lysozymes to break down cell walls
- D) destroy pathogens and release cytokines

Correct Answer

D) destroy pathogens and release cytokines

11 & 23 Compare between specific and nonspecific immunity and between active and passive immunity (Figures 9 & 11)

FIGURES BELOW

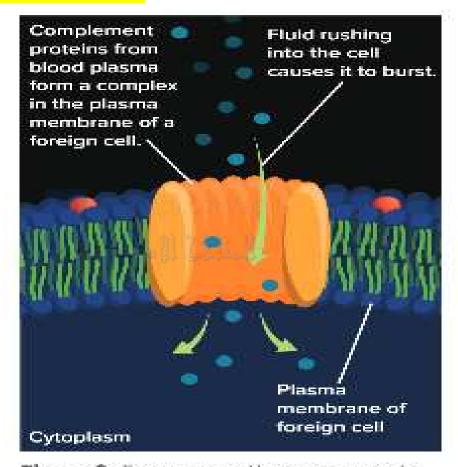
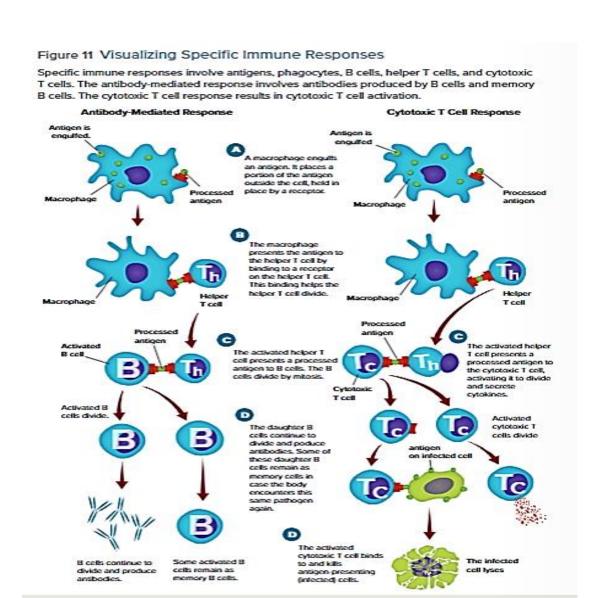


Figure 9 For some pathogens, complement proteins can form a pore in the plasma membrane of the invading cell.



11 & 23 Compare between specific and nonspecific immunity and between active and passive immunity

POSSIBLE QUESTIONS BELOW

Which of the following is not an aspect nonspecific immunity?

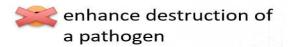
- A) Nonspecific immunity is not aimed at a specific pathogen.
- B) Nonspecific immunity involves B cells and T cells to kill pathogens.
- C) Nonspecific immunity involves skin barriers and chemical barriers.
- D) Nonspecific immunity involves white blood cells and phagocytosis.

Correct Answer

B) Nonspecific immunity involves B cells and T cells to kill pathogens.

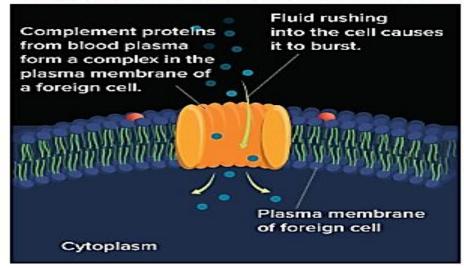


- 4. Complement proteins are found in the plasma. What is their role in the immune response?
- enhance phagocytosis



- activate phagocytes
- all of the above

What specific immune response is being enhanced by the process shown here?



- A) T cell activation
- B) phagocytosis
- C) interferon binding
- D) lysozyme secretion

Correct Answer

B) phagocytosis

Which is true of nonspecific immunity?

- A. It takes time to develop.
- B. It involves helper T cells.
- C.) It is the first line of defense.
- D. It is the most effective immune response.

11 & 23 Compare between specific and nonspecific immunity and between active and passive immunity

POSSIBLE QUESTIONS BELOW

B cells, helper T cells, and cytotoxic T cells are involved with __ immunity.

- O A) genetic
- O B) nonspecific
- O C) specific
- O D) hormonal
- Correct Answer

C) specific

Correct Answer

Which is the immunization for tetanus?

A) DPT

B) HBV.

D) MMR

C) HIB

A) DPT

What is a common example of passive immunity?

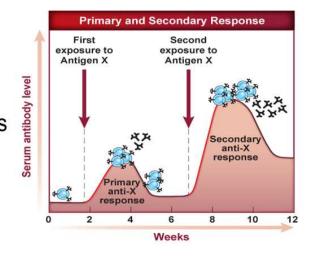
- A) skin keeps bacteria from entering body
- B) lysozyme kills pathogens
- O C) mother's antibodies given to fetus
- O D) vaccination results in memory cells

Correct Answer

C) mother's antibodies given to fetus

What enables the secondary response to the antigen to be more rapid and stronger than the primary response to the antigen?

- A. activated T cells
- B. antihistamines
- Cmemory B cells
- D. secondary antibodies



The deliberate exposure of the body to an antigen to build future immunity is called ___.

- A) phagocytosis
- O B) cellular defense
- C) passive immunity
- D) immunization

Correct Answer

D) immunization

13, 15, 17 & 24 Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy (Figures 2, 5 & 9)

FIGURES BELOW

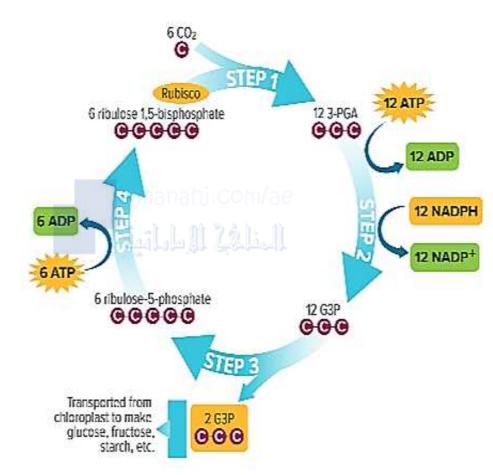


Figure 9 The Calvin cycle joins carbon dioxide with organic molecules inside the stroma of the chloroplast.

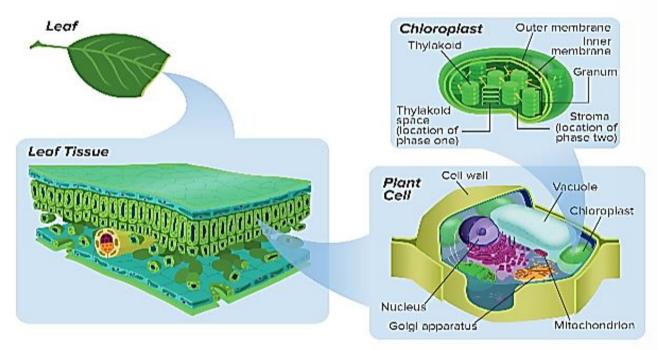


Figure 5 Photosynthesis occurs inside pigmented organelles called chloroplasts.

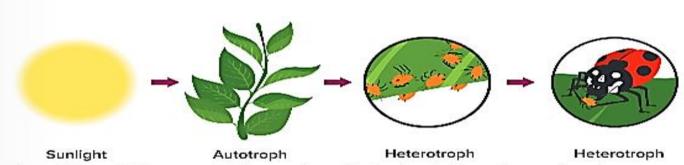


Figure 2 Almost all the energy in living organisms originates from the Sun, and energy flows from autotrophs to heterotrophs.

- **6.** Which is not a characteristic of energy?
- A. cannot be created nor destroyed
- **B.** is the capacity to do work
- C. exists in forms such as chemical, light, and mechanical
- Changes spontaneously from disorder to order
- **7.** Which organism depends on an external source of organic compounds?
- A. autotroph
- B. heterotroph
- C. chemoautotroph
- **D.** photoautotroph

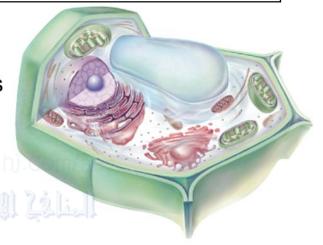
- 8. THEME FOCUS Energy Which part of this food chain provides energy to just one other part?
- A. the chemoautotroph
- **B.** the heterotroph
- C. the Sun
- D. the photoautotroph
 - **9.** What do cells store and release as the main source of chemical energy?
 - ATP C. NADP.
 - B. ADP D. NADPH

13, 15, 17 & 24 Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy

POSSIBLE QUESTIONS BELOW

Where in the plant cell does photosynthesis take place?

- (A.)chloroplasts
- B. Golgi apparatus
- C. mitochondria
- D. vacuoles



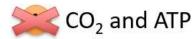
- 5. Which best describes the role of rubisco?
- It collects, stores, and converts light energy from the Sun.
- It produces the electrons that are carried along the electron transport chain.
- c It converts inorganic carbon dioxide into CORRECT organic molecules that can be used by the cell.
- It splits molecules of water, releasing protons.

Look at the following figure. Which part of the chloroplast is a sac-like membrane arranged in stacks?

- A. grana
- B. stroma
- C.)thylakoids
- D. Golgi apparatus

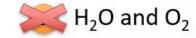


4. Which supplies energy used to synthesize carbohydrates during the Calvin cycle?





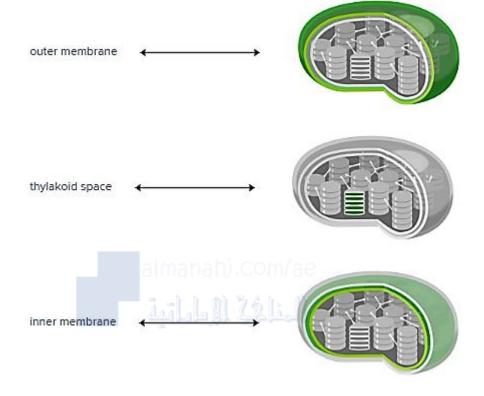
B ATP and NADPH

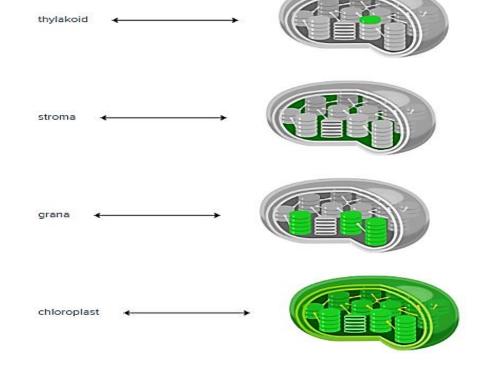


CORRECT

13, 15, 17 & 24 Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy

POSSIBLE QUESTIONS BELOW





What type of organism converts light energy from the Sun into chemical energy?

- A) a detritivore
- O B) a heterotroph
- C) a photoautotroph
- D) a chemoautotroph

Correct Answer

C) a photoautotroph

At the end of the Calvin cycle, where is energy stored?

- A. NADPH
- B. ATP
- C. chloroplast
- D. glucose

Which molecule helps provide the energy that drives this cycle?

- A. 3-PGA
- B. CO₂
- C NADPH
- D. rubisco

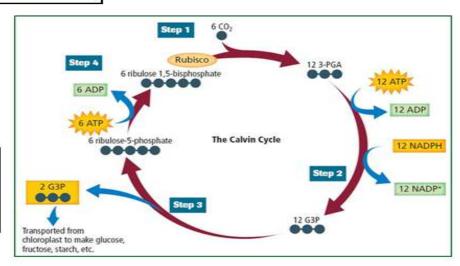
Which product of the Calvin cycle is used for the production of glucose and other organic compounds?



 $B. CO_2$



D. NADP+



Q. Where does the Calvin Cycle occur?

answer choices

thylakoid

lumen



14, 19, 20 & 25 Use a model to illustrate that aerobic cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy. (Figures 3 & 12)

FIGURES BELOW

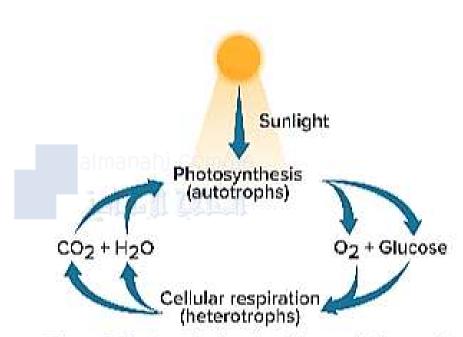


Figure 3 Photosynthesis and cellular respiration provide most of the energy for life processes.

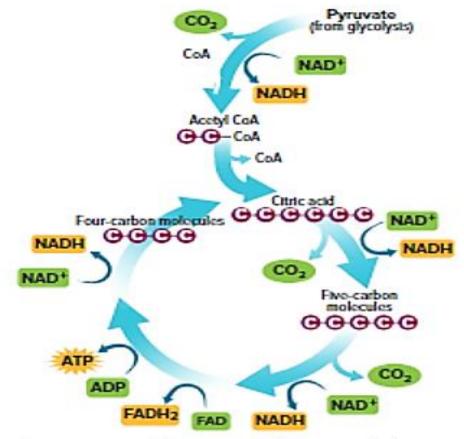


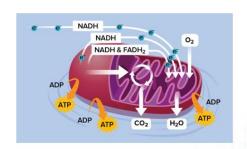
Figure 12 Pyruvate is broken down into carbon dioxide during the Krebs cycle inside the mitochondria of cells.

Trace Follow the path of carbon molecules that enter and leave the Krebs cycle.

14, 19, 20 & 25 Use a model to illustrate that aerobic cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy.

POSSIBLE QUESTIONS BELOW

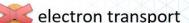
2. Which process does not occur in the organelle illustrated above?



A glycolysis CORRECT

conversion of pyruvate to acetyl CoA





4. What is produced when the electrons leave the electron transport chain in cellular respiration and bind to the final electron acceptor for the chain?









Why is cellular respiration a catabolic pathway?

- A. Energy is used to form glucose and oxygen.
- B. Energy is converted from water to carbon dioxide.
- C. Energy that is lost is converted to thermal energy.
- D. Energy is released by the breakdown of molecules.

What is the overall purpose of cellular respiration?

- (A.)to make ATP
- B. to process H₂O
- C. to store glucose
- D. to deliver oxygen

In which metabolic process are molecules broken down to produce carbon dioxide and water?

- A. photosynthesis
- B) cellular respiration
- C. homeostasis
- D. fermentation

14, 19, 20 & 25 Use a model to illustrate that aerobic cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy.

POSSIBLE QUESTIONS BELOW

Which represents the general sequence of cellular respiration?

- A. TCA cycle → chemiosmosis → glycolysis
- B.glycolysis → Krebs cycle → electron transport
- C. electron absorption → catalysis → phosphorylation
- D. aerobic pathway → anaerobic pathway → fermentation

What is the final step of cellular respiration?

- \bigcirc O₂ and H⁺ form H₂O.
 - B. Electrons and H₂O generate ATP.
 - C. C₆H₁₂O6 is broken down into CO₂.
 - D. NADH and FADH₂ gain electrons.

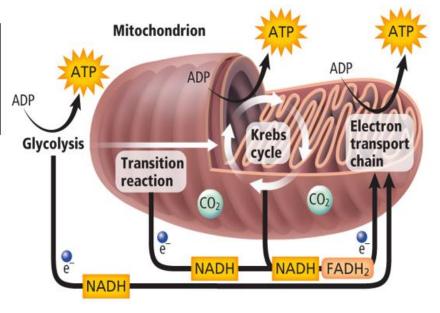
Which molecule generated by the Krebs cycle is a waste product?

A. CoA



C. FADH₂

D. NADH



14, 19, 20 & 25 Use a model to illustrate that aerobic cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy.

POSSIBLE QUESTIONS BELOW

During the Krebs cycle, pyruvate is broken down into what compound?

 $A. H_2O$

 $B. O_2$

C. CO

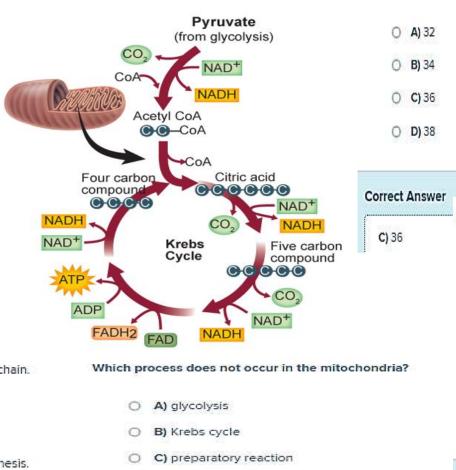


What is the importance of NADH and FADH₂?

- A) These molecules are used in the electron transport chain.
- B) These molecules are useless by-products.
- C) These molecules are recycled for use in glycolysis.
- O D) These molecules are used as products in photosynthesis.

Correct Answer

A) These molecules are used in the electron transport chain.



D) electron transport chain

Correct Answer

A) glycolysis

Under ideal conditions, how many ATP molecules are created from cellular respiration in eukaryotic cells?

Which of the following defines metabolic pathways?

-

- A) a series of chemical reactions in which light energy converts into chemical energy
- B) a series of chemical reactions in which organic molecules are broken down to release energy
- C) a series of chemical reactions in which the product of one reaction is the substrate for the next reaction
- O D) a series of chemical reactions in which mechanical energy converts into chemical energy

Correct Answer

 C) a series of chemical reactions in which the product of one reaction is the substrate for the next reaction

16 Describe that photosynthesis converts carbon dioxide plus water into sugars plus oxygen, which is released.

POSSIBLE QUESTIONS BELOW

Q. What are the products of photosynthesis? answer choices oxygen and glucose water and carbon dioxide oxygen and carbon dioxide oxygen and water Q. What is the main purpose of the light reactions? - answer choices o provide the energy and electrons for the To capture energy and make sugar Calvin Cycle To reflect green light To make sugars

1. What is a waste product of photosynthesis that is released into the environment?

$$6CO_2 + 6H_2O \xrightarrow{\text{energy}} C_6H_{12}O_6 + ?$$

- carbon dioxide
- **water**
- c oxygen correct
- 🔀 ammonia

Q. What is the name of the simple sugar that is produced in photosynthesis?

answer choices

Sucrose

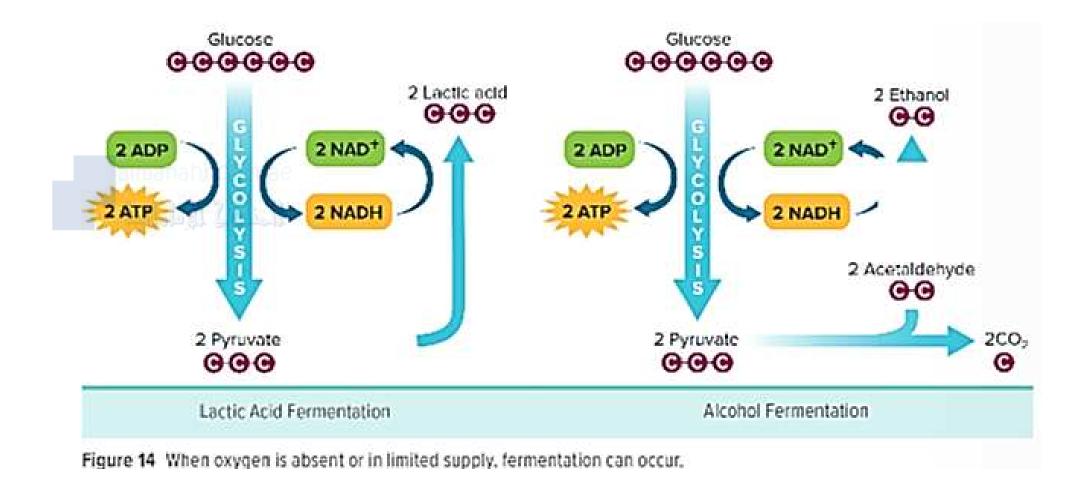
Dextrose

Slucose

Lactose

18 Investigate factors that affect the processes of fermentation or cellar respiration in living organisms (Figure 14)

FIGURE BELOW



18 Investigate factors that affect the processes of fermentation or cellar respiration in living organisms

POSSIBLE QUESTIONS BELOW

SSIDLE QUESTIONS DELOVE	Q. How are lactic acid and alcoholic fermentation similar?	
3. Which is NOT a similarity between lactic acid fermentation and alcohol fermentation?	answer choices They have the same products	They have the same reactants
Both occur in the cytoplasm.	They both require oxygen	They occur in the same organisms
Both produce a small amount of ATP.	Q. Fermentation is:	
C Both produce lactic acid. CORRECT	— answer choices ————————————————————————————————————	
Both regenerate the cell's supply of NAD+.	Cellular Respiration	Photosynthesis
Which describes the process of fermentation?	Aerobic	naerobic
A) aerobic process that manufactures pyruvate B) aerobic process that restores NAD* supply	Q. What does it mean for something to be anaerobic? — answer choices —	
C) anaerobic process that manufactures pyruvate D) anaerobic process that restores NAD ⁺ supply	It requires CO2	It does not require CO2
Correct Answer D) anaerobic process that restores NAD+ supply	It requires oxygen	t does not require oxygen
AND THE PROPERTY OF THE PROPER		