

Cellular Energy Revision Paper



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المزيد من مادة
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التواصل الاجتماعي بحسب الصف الحادي عشر العام



صفحة المناهج
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انسابير منهج Cellular Energy

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مجاب Molecular Genetics Revision Paper

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Complex Inheritance and Human Heredity Revision Paper Solution

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Complex Inheritance and Human Heredity Revision Paper

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CHAPTER 7

CELLULAR ENERGY



REVISION PAPER

by Abd Alrahman Basim

SECTION 1:
HOW ORGANISMS OBTAIN ENERGY

SECTION 2:
PHOTOSYNTHESIS

SECTION 3:
CELLULAR RESPIRATION



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HOW ORGANISMS OBTAIN ENERGY

1. _____ is the energy currency of the cell.
 - a) Metabolism
 - b) Adenosine triphosphate (ATP)
 - c) Photosynthesis
 - d) Cellular respiration

2. The study of the flow and transformation of energy is called _____.
 - a) energy
 - b) cellular respiration
 - c) photosynthesis
 - d) thermodynamics

3. _____ can exist in many forms.
 - a) Energy
 - b) Bioenergetics
 - c) thermodynamics
 - d) photosynthesis

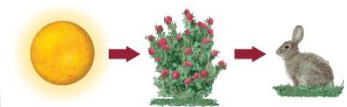
4. Chemical reactions that convert energy within a cell are referred to as _____.
 - a) autotrophs
 - b) metabolism
 - c) photosynthesis
 - d) cellular respiration

5. Light energy is converted into chemical energy during the process of _____.
 - a) metabolism
 - b) autotrophs
 - c) cellular respiration
 - d) photosynthesis



HOW ORGANISMS OBTAIN ENERGY

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
 - d) 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. 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?
- a) ATP
 - b) NADP^+
 - c) ADP
 - d) NADPH
10. Which energy transformation can occur only in autotrophs?
- a) chemical energy into mechanical energy
 - b) electrical energy into thermal energy
 - c) light energy into chemical energy
 - d) mechanical energy into thermal energy



PHOTOSYNTHESIS

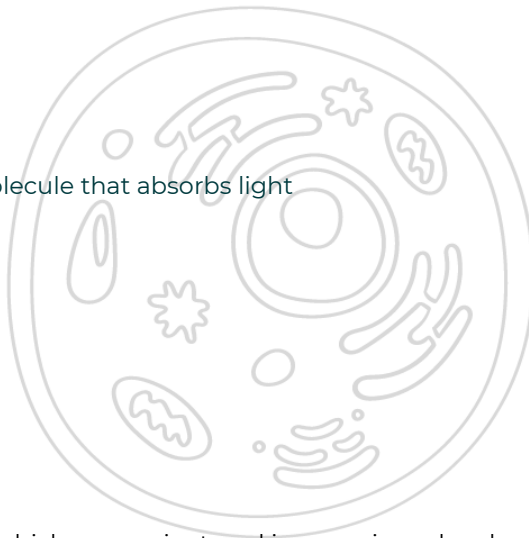
1. _____ is the location of the light reactions.
 - a) Thylakoid
 - b) Granum
 - c) Calvin cycle
 - d) Stroma

2. A stack of thylakoids is called _____.
 - a) pigment
 - b) rubisco
 - c) granum
 - d) stroma

3. _____ is a colored molecule that absorbs light.
 - a) Rubisco
 - b) Pigment
 - c) NADP^+
 - d) Thylakoid

4. _____ is a process in which energy is stored in organic molecules.
 - a) Calvin cycle
 - b) Carbon fixation
 - c) glycolysis
 - d) Krebs cycle

5. What waste product of photosynthesis is released to the environment?
 - a) carbon dioxide
 - b) water
 - c) oxygen
 - d) ammonia

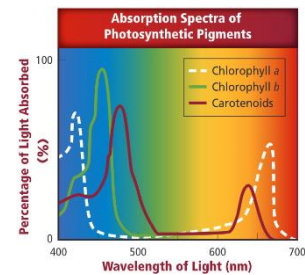


PHOTOSYNTHESIS

6. Which is the internal membrane of the chloroplast that is organized into flattened membranous sacs?
- a) Thylakoids
 - b) Theca
 - c) Mitochondria
 - d) Stroma

7. Of which wavelength of light do carotenoids absorb the greatest percentage?

- a) 400
- b) 600
- c) 500
- d) 700



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

- a) CO_2 and ATP
- b) ATP and NADPH
- c) NADPH and H_2O
- d) H_2O and O_2

9. Which step occurs during the Calvin cycle?

- a) formation of ATP
- b) formation of six-carbon sugars
- c) release of oxygen gas
- d) transport of electrons by NADP^+

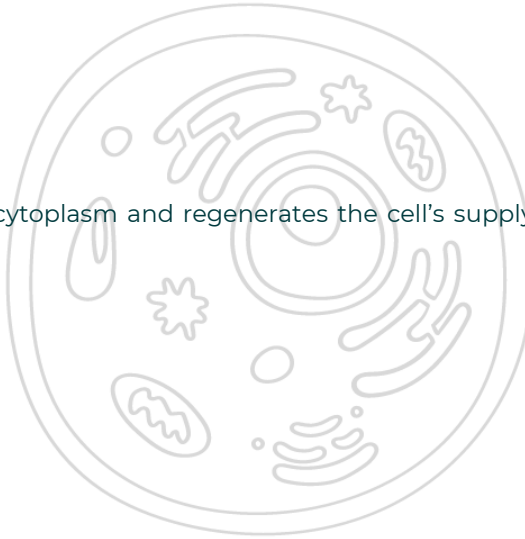
CELLULAR RESPIRATION

1. The series of reactions in which pyruvate is broken down into carbon dioxide is called the _____.
 - a) Krebs cycle
 - b) glycolysis
 - c) Calvin cycle
 - d) fermentation

 2. _____ is a process that do not require oxygen.
 - a) Krebs cycle
 - b) Electron transport
 - c) Aerobic process
 - d) Anaerobic process

 3. _____ occurs in the cytoplasm and regenerates the cell's supply of NAD^+ while producing a small amount of ATP.
 - a) Cellular respiration
 - b) Fermentation
 - c) Electron transport
 - d) Krebs cycle

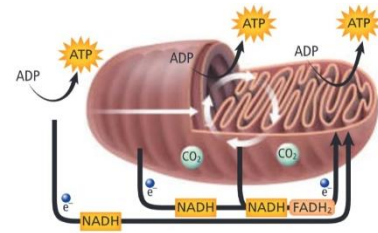
 4. _____ is a process that do require oxygen.
 - a) Fermentation
 - b) Glycolysis
 - c) Aerobic process
 - d) Anaerobic process

 5. Glucose is broken down in the cytoplasm through the process of _____.
 - a) Krebs cycle
 - b) electron transport
 - c) Calvin cycle
 - d) glycolysis
- 

CELLULAR RESPIRATION

6. Which organelle is illustrated in the figure?

- a) Golgi apparatus
- b) Mitochondrion
- c) Nucleus
- d) Endoplasmic reticulum

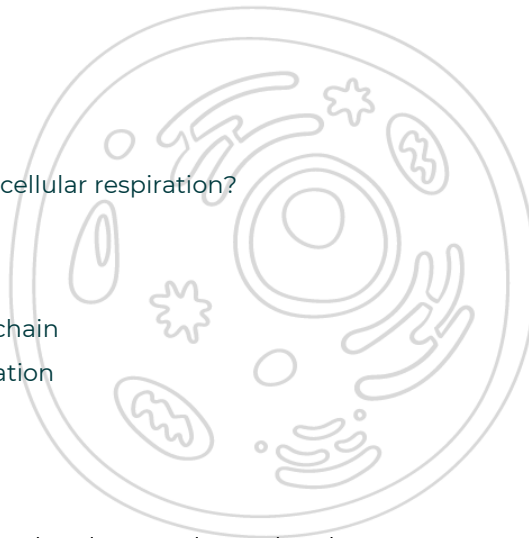


7. Which process does not occur in the organelle illustrated above?

- a) glycolysis
- b) Krebs cycle
- c) conversion of pyruvate to acetyl CoA
- d) electron transport

8. Which is not a stage of cellular respiration?

- a) glycolysis
- b) Krebs cycle
- c) electron transport chain
- d) lactic acid fermentation



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

- a) H_2O
- b) O_2
- c) CO_2
- d) CO

10. In which molecule is most of the energy of glucose stored at the end of glycolysis?

- a) pyruvate
- b) acetyl CoA
- c) ATP
- d) NADH

CHAPTER 7

CELLULAR ENERGY

REVISION PAPER

Resources

- *The Immune System, Chapter 37, from Glencoe Biology ©2017*

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