

JULY EXAM

Examiner: Mrs. N. Horner

Date: JULY 2024

Time: 2 hours 30 min

Total: 100

SECTION A

Question 1

1.1 Different options are given as possible answers for the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.10) on the FOUR PAPER e.g. 1.1.1 E.

1.1.1 Substance used inside living cells as a storage place for energy

- A. Active transport.
- B. Adenosine triphosphate.
- C. Cytoplasm.
- D. Mitochondrion.

(2)

1.1.2 Tendency of water molecules to move from a high concentration to a low concentration.

- A. Osmosis.
- B. Water potential.
- C. Diffusion.
- D. Passive transport.

(2)

1.1.3 Using part of cell: cell membrane, cytoplasm and organelles.

- A. Cell wall
- B. Jelly-like part.
- C. Half cell membrane.
- D. Protoplasm.

(2)

1.1.4 Transport of substances between the cell nucleus and the cytoplasm.

- A. Pores.
- B. Ribosomes.
- C. Cell wall
- D. Double membrane.

(2)

1.1.5 The function of the endoplasmic reticulum is:

- A. Network of membranes in the nucleus, involved in chemical reactions and storage of liquid

- B. Network of membranes in the cytoplasm, involved in chemical reactions and storage of liquid

- C. Network of membranes in the cytoplasm, involved in chemical reactions and storage of liquid

- D. Network of membranes in the cell membrane, involved in chemical reactions and storage of liquid

(2)

1.1.6 Ribosomes consist of:

- A. Proteins and DNA.
- B. Proteins and RNA.
- C. Carbons and RNA.
- D. Carbons and DNA.

(2)

1.1.7 How many fatty acids do hydrophobic tails consist of?

- A. One
- B. Three
- C. None
- D. Two

(2)

1.1.8 Diffusion takes place in:

- A. Non-living systems.
- B. Living systems.
- C. Living and non-living systems.
- D. None of the above

(2)

1.1.9 The mitochondria consist of the following parts.

- A. Inner membrane, matrix and outer membrane.
- B. Crysta, matrix and double membrane.
- C. Inner membrane, crista, matrix, double membrane and outer membrane.
- D. Inner membrane, crista, matrix, double membrane.

(2)

1.1.10 Choose the letter that does NOT match the function of the cytoplasm.

- A. Give shape to the cell.
- B. Solvent for water-soluble substances.
- C. Contains genetic information.
- D. Storage site for small molecules.

(2)

1.2 Give the correct biological term for each of the following descriptions.

(2)

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web may 30 2021 the following experiment will use various digestive enzymes and environmental conditions to examine the chemical digestion of foodstuff macromolecules carbohydrates lipids and proteins into the smaller molecules that comprise the macromolecules that we consume within our food

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web activity lesson lesson plan note this resource vetted by nsta curators is provided to teachers along with suggested modifications to make it more in line with the vision of the ngss

3 2 enzyme teacher preparation notes biology libretexts - Dec 08 2022

web jul 11 2023 overview students learn about enzyme function enzyme specificity and the molecular basis of lactose intolerance through experiments with the enzyme lactase and analysis and discussion questions students engage in the scientific practices of designing and carrying out experiments and interpreting data

digestion and enzymes lab scientist cindy - May 13 2023

web we will learn about three main enzymatic concepts how the presence of enzymes allows us to digest foods at a faster rate how optimal environmental factors specifically ph and temperature affect the rate of enzymatic digestion how increased surface area increases chemical digestion and how amphipathic molecules help us digest fats

digestive enzyme digestive system quiz quizizz - Dec 28 2021

web 12 questions show answers q which substrate would this enzyme catalyze q enzymes are q this enzyme digests

carbohydrate q this enzyme digests fats lipids q