

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 chloroplasts, 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)

South Africa Controlled Test Life Sciences Paper

Camilla Rothe



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