

FOCUS A365

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BIOLOGY
FORM 1
MID TERM EXAM
TIME: 1 HOUR

INSTRUCTIONS

Answer all questions in the spaces provided.

QUESTIONS (25 MARKS)

1. An organ is to organism while anis to a cell. (1 mark)

2. State the functions of the following
i. Sap vacuole. (1 marks)

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ii. Golgi apparatus. (1 marks)

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3. Explain what is meant by the following terms as used in osmosis (3marks)

a) Turgor pressure

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b) Hypertonic solution

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c) Haemolysis

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4. Name two specialized cells in plants. (2 marks)

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5. (a) What would happen to a plant cell if placed a hypotonic solution (2 mark)

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(b) The scientific name of man is given as HOMOSAPIENS

- i) Write the name in a proper scientific way. (1 mark)

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- (ii) State three characteristics of a cell membrane (3 marks)

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6. Cells of a certain herbaceous plant were found to have an average diameter of 2.5mm. The cells were placed in varying concentrations of sugar solution. The average diameter of these cells in each solution was determined and the results obtained as shown in the table below.

Concentration of sugar solution	Diameter of cells (mm)
1%	5.0mm
5%	4.0mm
10%	3.0mm
15%	2.0mm

- (a) From these results determine the concentration of the cell sap of the herbaceous plant. (1mk)

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- (b) What term is given to the sugar solution whose concentration is equal to that of the cell sap? (1 mark)

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- (c) Give an explanation for the average diameter of the plant cells when placed in 10% sugar solution. (2 marks)

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7. Distinguish between turgor pressure and wall pressure. (2 marks)

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8. (a) How does surface area affect rate of diffusion. (2 marks)

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(b) State two roles of diffusion in living organisms.

(2 marks)

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