**YEAR 11 INTEGRATED SCIENCE GENERAL**

**2022 TASK 2: CELLS AND BODY SYSTEMS TEST**

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| **Name:** | **Date:** | **Teacher:** | |
|  |  |  | **MARK:**  **/40** |

**This task is worth 5% of your overall mark.**

1. In the space below, draw a labelled diagram of an animal cell and a plant cell (4 marks)
2. Describe the function of the following organelles found in cells: (2 marks)

Nucleus:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mitochondria:

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1. List and describe the function of **two** otherorganelles which are **not** found in both types of cells

(2 marks)

Organelle 1:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Organelle 2:

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1. List the **eight** life processes/characteristics that **all** living things have in common (4 marks)

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| 1. | 5. |
| 2. | 6. |
| 3. | 7. |
| 4. | 8. |

1. The cell membrane is described as a fluid mosaic model. Explain what this means. (2 marks)

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1. Compare and contrast the similarities and differences between diffusion, passive transport, facilitated transport and active transport across the cell membrane. (5 marks)

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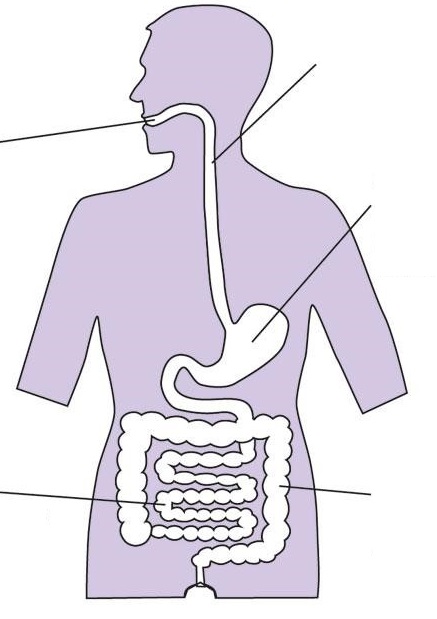
1. Explain the relationship between cells, tissue, organs, and systems and give an example of each organisational level (5 marks)

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1. Explain the role of the digestive system (3 marks)

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1. Label the 5 main parts of the human digestive system (5 marks)



1. Write an extended response which outlines the process of digestion as you eat your dinner.

(8 marks)

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