**Task 2: Extended Response Cells**

Mark: \_\_\_\_\_\_\_\_\_\_/25

**Year 11 Human Biology 2016**

Answer the two questions below on the lined paper provided. You can choose how to structure your answer and may include labelled diagrams or tables if appropriate.

**Questions 1)**

1. Discuss the structural and chemical properties of enzymes. (6 marks)
2. Compare and contrast the ‘lock and key hypothesis’ to the ‘induced fit model’ of enzyme action. (5 marks)

**Question 2)**

Respiration is a process common to all living cells.

1. Describe in detail the nature and location of the chemical processes involved in muscle cell respiring aerobically. (10 marks)

1. Explain why cellular respiration is essential for maintenance of life. (4 marks)

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