

AQA, OCR, Edexcel

A Level

A Level Biology

**The Human Genome Project
Questions**

Name:

M M E

Mathsmadeeasy.co.uk

Total Marks: /16

The Human Genome Project

The Human Genome Project was a scientific research project spanning 13 years whose goal was to identify and sequence all of the nucleotide base pairs that make up human DNA.

1. The human genome contains roughly 3 billion base pairs and an estimated 25, 000 genes.
 - a) Knowledge of the sequence of the human genome has many advantages to both modern medicine and science.
 - i) How has The Human Genome Sequence advanced modern genetic techniques? (3 marks)
 - ii) Identify some of the advantages surrounding the knowledge of the sequence of the human genome. (5 marks)
 - iii) The Human Genome Project has also created a number of social, legal, biological and ethical issues. Discuss some of these issues in more detail. (8 marks)