

AQA, OCR, Edexcel

A Level

A Level Biology

**The Human Genome Project
Answers**

Name:

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Mathsmadeeasy.co.uk

Total Marks: /16

Ethical:

- Embryos found to carry genes for particular diseases would potentially be destroyed
- Pre-natal screening could increase the number of terminations carried out (religious/moral issues)
- Creation of 'designer babies'

Legal:

- employment issues: individual who has been screened and found to have a gene for certain disease may be at a disadvantage for a job
- May cause a disadvantage to health insurance eligibility
- Would need to be strict laws in place to control what gene research was carried out
- Using DNA knowledge to create a forensic DNA database/data protection/ over powerful state

Biological:

- There may be side effects to gene manipulation in future generations
- Some diseases provide resistance towards other diseases which is beneficial and could be lost (e.g. sickle cell anaemia causes resistance to malaria)