

Read the documents in the accompanying Resource Booklet and answer **all** the questions.

Gene Modification and Medical Ethics

1 Study Document 1.

(a) Identify **four** dangers that Document 1 suggests may result from the development of synthetic biology. [4]

(b) How strong is the evidence used in Document 1 to support its claims about the dangers? [6]

2 Study Document 1.

Evaluate the strengths and weaknesses of the reasoning in Document 1. [8]

3 Study Documents 1 and 2.

To what extent is the view in Document 2 about the application of genetic research more convincing than the view in Document 1? [12]

[Total: 30]

Copyright Acknowledgements:

Document 1 © adapted: *Extreme Genetic Engineering: An Introduction to Synthetic Biology*; www.etcgroup.org; 2007.

Document 2 © adapted: *Journal of Medical Ethics*; www.jme.bmj.com.

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