



GLOBAL PERSPECTIVES

9777/01

Paper 1 Written paper

October/November 2013

QUESTION PAPER

1 hour 30 minutes

Additional Materials: Answer Booklet



READ THESE INSTRUCTIONS FIRST

- Follow the instructions on the front cover of the Answer Booklet.
- Write your Centre number, candidate number and name on all the work you hand in.
- Write in dark blue or black pen.
- Do not use staples, paper clips, highlighters, glue or correction fluid.
- Answers should be written in continuous prose.

Answer **all** questions.
You should spend approximately 10 minutes reading the documents in the Resource Booklet before attempting to answer the questions. This is allowed for within the time set for the examination.

At the end of the examination, fasten all your work securely together.
The number of marks is given in brackets [] at the end of each question or part question.

This document consists of **2** printed pages.



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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