

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Advanced GCE

GENERAL STUDIES

2965

THE SCIENTIFIC AND CULTURAL DOMAINS

Wednesday **25 JANUARY 2006** Afternoon 1 hour 30 minutes

Additional materials:
8 page Answer booklet.

TIME 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the spaces provided on the answer booklet.
- If you use additional sheets of paper, fasten the sheets to the answer booklet.
- Answer **one** question in Section A and **one** question in Section B.
- Read each question carefully and make sure you know what you have to do before starting your answer.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is 100.
- **Where an answer requires a piece of extended writing, the quality of your written communication will be assessed, including clarity of expression, structure of arguments, presentation of ideas, grammar, punctuation and spelling.**
- Credit will be given for appropriate use of examples.
- You may use an approved calculator.

This question paper consists of 4 printed pages.

Section A**The Scientific Domain**

Answer **one** question from this section.

- 1** Gravity is the force that causes things to fall to the ground when they are dropped.

Describe how you would carry out a scientific experiment to test the effect of gravity on different items when they fall freely from a variety of heights. Include in your answer:

- carefully labelled drawings;
- an example of a blank results sheet that you might use;
- an outline of possible conclusions;
- suggestions of any sources of error that might make your results unreliable. [50]

- 2** There are two main groups of energy sources.

Group A sources include coal, gas, oil and nuclear energy.

Group B sources include hydroelectric power, wind, tidal, wave, solar and geothermal energy.

Select **one** source from each group and assess the arguments for and against its use to help meet future energy demand. [50]

- 3** Sustainable development meets the needs of the present generation and retains our ability to meet the needs of future generations. To promote this the United Nations has produced a slogan for sustainability:

‘think globally and act locally’.

Assess **two** global and **two** local policies that are intended to assist sustainable development. [50]

Section B

The Cultural Domain

Answer **one** question from this section.

4 For **one** religious group that you know well, assess its view of **two** developments in the sciences that have occurred in the last seventy years. [50]

5 Describe how experiencing the works of creative people operating in **two** of the following areas could help to make a weekend break in a place of your choice more interesting:

- | | | |
|-------------------|------------------|-----------------|
| (a) architecture; | (d) photography; | (g) cinema; |
| (b) fashion; | (e) sculpture; | (h) music; |
| (c) painting; | (f) theatre; | (i) literature. |

Illustrate your answer with actual and imaginary examples that you are able to justify. [50]

6 In a small community a local committee has decided to produce a CD of still images to show everyday life there in 2006.

Local organisations and residents have suggested the following themes:

- the local primary school and playgroup;
- hobbies, arts and crafts;
- employment;
- leisure and sports;
- local services e.g. doctor, nurse, refuse collection, buses;
- babies and the elderly;
- the annual flower show;
- the local public house.

Identify a community you know well. Select **one** of these themes and explain why you think it best represents everyday life there.

Your community may be based within a village, part of a small town or a group in an urban area.

Each theme is to be allowed five images. Describe and justify your choice of **five** images for your chosen theme to be included on the CD. [50]

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