

General Certificate of Secondary Education
June 2005



GENERAL STUDIES
Higher Tier
Paper 1

3761/1HA

Tuesday 7 June 2005 9.00 am to 11.00 am

H

In addition to this paper you will require:

- an objective test answer sheet for Section A;
- a question paper/answer book for Sections B and C, provided as an insert;
- a black ball-point pen.

You may use a calculator.

Time allowed: 2 hours (for Sections A, B and C)

Instructions

SECTION A

- Use a black ball-point pen for recording your answers to Questions A1 to A20 on your objective test answer sheet.
- Answer **all** questions.
- For each question there are several alternative responses. When you have selected the response which you think is the best answer to a question, mark this response on your answer sheet.
- Mark all responses as instructed on your answer sheet. If you wish to change your answer to a question, follow the instructions on your answer sheet.
- Do all rough work in this book, **not** on your answer sheet.

SECTION B and SECTION C

- Answer **all** questions in **Section B** and **one** question from **Section C**.
- Write your answers to **Section B** and **Section C** in the spaces provided in the enclosed question paper/answer book.
- At the end of the examination hand in **both** your Section A answer sheet **and** your Section B and C answer book.

Information

- The maximum mark for this paper is 80.
- In **Sections B** and **C** you will be assessed for quality of written communication.

Advice

- You are advised to spend about 30 minutes on **Section A** and about 1 hour 30 minutes on **Sections B** and **C**.

SECTION A

Each of Questions **A1** to **A20** is followed by four responses, **A**, **B**, **C** and **D**.

For each question select the best response and mark its letter on the answer sheet.

Each of the 20 questions carries 1 mark.

Questions A1 and A2

J.S. Bach was a composer of the Baroque era, who died in 1750, aged 65.

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- A1** His famous melody which is now known as “Air on a G string” was originally written to be played by
- A** clarinets.
 - B** organ.
 - C** trumpets.
 - D** violins.
- A2** Which of these composers was his contemporary?
- A** Handel (1685-1759)
 - B** Mozart (1756-1791)
 - C** Beethoven (1770-1827)
 - D** Brahms (1833-1897)

Questions A3 and A4

Proverbs are sayings which are supposed to contain wisdom and advice.

A3 Which one of the following proverbs warns against overconfidence?

- A** Don't cross your bridges before you come to them.
- B** Look before you leap.
- C** Don't count your chickens before they hatch.
- D** A fool and his money are soon parted.

A4 Many writers have written stories which aim to incorporate useful advice. Such stories are best described as

- A** fairy tales.
- B** cautionary tales.
- C** fantasy tales.
- D** epic tales.

TURN OVER FOR THE NEXT QUESTION

Turn over ►

Questions A5 and A6

The Noordlanders' language has a logical structure.

To say "I am going to school", a Noordlander would say "Ja geto am skøla".

To say "I am not running to the library", she would say "Ja na couro am bibliotek".

To say "I will not go to the shop tomorrow", she would say "Ja na getero am spara hiera".

To say "I will run to school tomorrow", she would say "Ja couroro am skøla hiera".

A5 To say "I will not run to the library tomorrow" she will say

- A** Ja na couro am bibliotek hiera.
- B** Ja na getero am bibliotek hiera.
- C** Ja na couroro am bibliotek.
- D** Ja na couroro am bibliotek hiera.

A6 To make the past tense, the verb is given the suffix "ed".
Adjectives come after the noun they describe.
Noordlander colours are expressed by English words with the first letter removed.

"I went to the green school" is expressed as

- A** Ja edgeto am reen skøla.
- B** Ja getoed am reen skøla.
- C** Ja edgeto am skøla reen.
- D** Ja getoed am skøla reen.

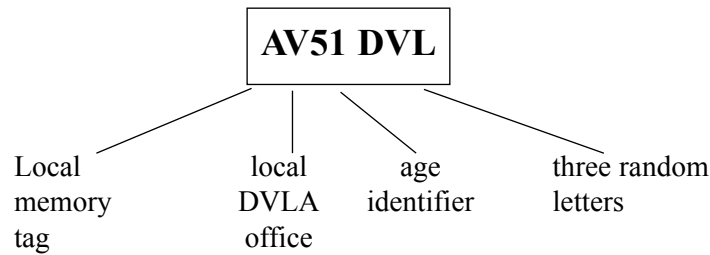
Questions A7 and A8

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TURN OVER FOR THE NEXT QUESTION

Questions A9 and A10

In September 2001 new style licence plates were issued by the Driver and Vehicle Licensing Agency (DVLA).



Local memory tag	DVLA office	Local identifier
A	Peterborough	ABCDEFGHIJKLMN
	Norwich	OPRSTU
	Ipswich	VWXY
B	Birmingham	A-Z

Year	March	September
2001	–	51
2002	02	52
2003	03	53
2004	04	54

A9 The local DVLA office for the number plate **AV51 DVL** is

- A** Peterborough.
- B** Norwich.
- C** Ipswich.
- D** Birmingham.

A10 The number plate **AB59 DVL** will be issued in

- A** 2009
- B** 2019
- C** 2029
- D** 2059

Questions A11 and A12

Your Body Mass Index (B.M.I) is calculated by the following formula:

$$\frac{\text{Mass (in kilogrammes)}}{\text{Height}^2 \text{ (in metres)}}$$

- | | |
|---------------------|-------------------------------------|
| a B.M.I. of 15 - 20 | means that you are underweight |
| a B.M.I. of 20 - 25 | means that you are a healthy weight |
| a B.M.I. of 25 - 30 | means that you are overweight |
| a B.M.I. of 30 + | means that you are obese |

A11 Joseph has a B.M.I. of 32 and he is 2 metres tall. What is his mass?

- A** 75 kilogrammes
- B** 105 kilogrammes
- C** 128 kilogrammes
- D** 182 kilogrammes

A12 Anastasia is 1.8 metres tall and her mass is 78 kilogrammes. Which B.M.I. category does she fit?

- A** underweight
- B** healthy weight
- C** overweight
- D** obese

TURN OVER FOR THE NEXT QUESTION

Turn over ►

Questions A13 and A14

When colour appears on a monitor screen, the shade is determined by the value (0 to 255) in each colour channel. E.g.

Colour seen	Green channel value	Red channel value	Blue channel value
green	255	0	0
violet	0	210	255
magenta	0	255	210

A13 The values for the colour cyan (turquoise) are most likely to be

	Green	Red	Blue
A	100	200	50
B	250	0	250
C	250	250	0
D	0	0	250

A14 With a choice of 0 to 255 in each of the three channels, the number of colours that can be made is about

- A** $255 + 2$
- B** 255×3
- C** 255^2
- D** 255^3

Questions A15 and A16

Vitamin	Sources	Function	Deficiency
D	Fatty fish Eggs Margarine Produced under the skin by sunlight (UV rays)	Aids the absorption of calcium in the small intestine to ensure strong teeth and bones.	Can cause rickets. Pregnant women need vitamin D for the growing baby.
K	Liver Leafy vegetables Fruit Cereals Meat Dairy products	Essential to blood clotting. Regulates calcium levels in blood.	Could cause internal bleeding. Can lead to anaemia.
A	Liver Eggs Yellow & orange fruit and vegetables Dairy products Fish oils	Helps bones to grow. Aids night vision. Forms cells of the skin and internal linings of the body.	Dry skin. Slow growth in children. Impaired vision - in severe cases, blindness.
E	Vegetable oils Nuts Seeds Cereals Egg yolk	Keeps lungs and red cells healthy. Can prevent certain cancers and protect against heart disease.	Rarely found.
B	Cereals/wheatgerm/yeast Meat/fish Eggs Dairy products Pulses	Releases energy from food.	Loss of appetite. Confusion. Poor healing. Diarrhoea.
C	Citrus fruits Strawberries Tomatoes Potatoes Red and Green Peppers	Helps absorb calcium and iron from food. Protects against infection and allergies.	Poor skin. Scurvy. Slow healing wounds.

A15 According to the table above, poor skin could be remedied by eating foods rich in vitamins

- A** A and D.
- B** A and C.
- C** B and C.
- D** D and E.

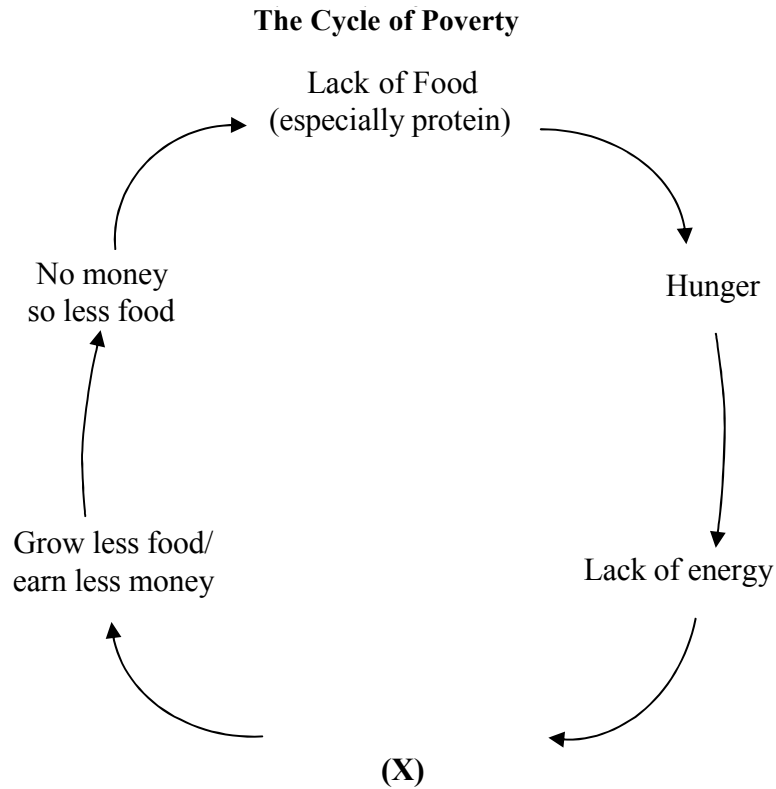
A16 Vegetarians eat neither meat nor fish. This may have an effect on vegetarians' intake of vitamins. Which of the following is true?

- A** All necessary vitamins can be obtained from a vegetarian diet.
- B** Some vitamins can only be obtained from meat.
- C** Eggs and cheese contain all of the necessary vitamins.
- D** Vitamin E is rarely found in the human body.

Turn over ►

Questions A17 and A18

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Questions A19 and A20


A19 The missing component (X) to complete this cycle is

- A often ill.
- B poor soil.
- C no education.
- D borrow money.

A20 Each of the following is a method of breaking the cycle of poverty **except**

- A education on farming methods.
- B improving food and seed storage.
- C restricting exports of grain.
- D eating more protein.

QUESTION A20 IS THE LAST QUESTION IN SECTION A

ON YOUR ANSWER SHEET IGNORE ROWS 21 TO 50

TURN OVER FOR SECTION B STIMULUS MATERIAL

Turn over ►

SECTION B**Stimulus Material**

Study the following information and answer **all** the questions in Section B, which are printed in the enclosed question paper/answer book.

Item A

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Item B

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Item C

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Turn over ►

SECTION C

Answer **one** question, **EITHER C6, C7 OR C8**.
Write your answers in the spaces provided on pages 5 to 8 of the other booklet.
Each question carries 30 marks.

C6**Item D**

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The picture showed two students smoking and a headline about the negative effect of a ban on smoking on the profits of a student bar.

Students object to smoking ban in student bar.

Item E

Source: Sara Cuff, *Lancashire Life*, February 2003

Drinks at a golf club's anniversary.

- (a) 'Smoking should be banned in all public places'. How far do you agree with this statement?
(10 marks)
- (b) Explain the causes **and** consequences of drinking to excess.
(20 marks)

C7

Item F

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Tower blocks of flats at Red Road, Glasgow

Item G

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Thatched cottages, Cracklington Haven, near Bude, Cornwall.

- (a) Explain the difficulties faced by an elderly person living in a high-rise flat. *(10 marks)*
- (b) What are the arguments for **and** against living in the countryside today? *(20 marks)*

Turn over ►

C8

Item H

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The Scottish Symphony Orchestra

Item I

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Sir Elton John in concert

- (a) Why is financial support needed for classical orchestras today? *(10 marks)*
- (b) Explain the problems faced by the organisers and performers of 'pop' music concerts. *(20 marks)*

END OF QUESTIONS**ACKNOWLEDGEMENT OF COPYRIGHT HOLDERS AND PUBLISHERS.**

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Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

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General Certificate of Secondary Education
June 2005



GENERAL STUDIES
Higher Tier
Paper 1 Sections B and C

3761/1HB

H

Tuesday 7 June 2005 9.00 am to 11.00 am

In addition to this paper you will require:

- the Section B stimulus material in the other booklet;
- the Section C questions in the other booklet.

You may use a calculator.

For Examiner's Use			
Number	Mark	Number	Mark
B1			
B2			
B3			
B4			
B5			
C6			
C7			
C8			
Total (Column 1)	→		
Total (Column 2)	→		
TOTAL			
Examiner's Initials			

Time allowed: 2 hours (for Sections A, B and C)

Instructions

- Use blue or black ink or ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions in Section B and **one** question in Section C.
- Write your answers to Section B and Section C in the spaces provided in this answer book.
- Do all rough work in this book. Cross through any work you do not want marked.
- At the end of the examination hand in **both** your answer sheet for Section A **and** this answer book.

Information

- The maximum mark for Section B is 30.
- The maximum mark for Section C is 30.
- Mark allocations are shown in brackets.
- In Sections B and C, you will be assessed on your ability to use an appropriate form and style of writing, to organise relevant information clearly and coherently and to use specialist vocabulary, where appropriate. The degree of legibility of your handwriting and the level of accuracy of your spelling, punctuation and grammar will also be taken into account.

Advice

- You are advised to spend about 40-45 minutes on Section B and about 40-45 minutes on Section C.

SECTION B

Study the stimulus material provided on pages 12 and 13 of the other booklet.

Answer **all** the questions below in the spaces provided.

Mark allocations are shown in brackets.

B1 In the stimulus material provided, what word or phrase is used for:

(a) a ‘greenhouse gas’ caused by burning fossil fuels?

.....
(1 mark)

(b) the network of high voltage power lines connecting major UK power stations?

.....
(1 mark)

(c) a town in the Ukraine which was the site of a 1986 nuclear power station accident?

.....
(1 mark)

(d) an organisation which protests against threats to environmental safety?

.....
(1 mark)

B2 (a) Explain what is meant by ‘nuclear reactors’. **(Item A)**

.....
.....
.....
(2 marks)

(b) Explain what is meant by ‘cancer and birth defect clusters’. **(Item B)**

.....
.....
.....
(2 marks)

(c) Explain what is meant by ‘Radioactive Environment’. **(Item C)**

.....
.....
.....
(2 marks)

4

6

B3 (a) Explain **two** problems connected with the use of plutonium by the nuclear industry which are outlined in **Item B**.

.....
.....
.....

(2 marks)

(b) Explain **two** criticisms which 'CORE' (**Item C**) has made about the Sellafield nuclear site.

.....
.....
.....

(2 marks)

B4 Refer to **Item A**.

(a) If a billion is 1 000 000 000 and the average BNFL employee earns £35 000, what percentage of BNFL's annual turnover is taken up by pay?
Show how you arrived at your answer.

.....
.....
.....

(2 marks)

(b) If coal-fired generators were to replace the world's nuclear reactors currently producing electricity, approximately how much more carbon dioxide would be emitted each year?

.....

(1 mark)

(c) Explain **two** costs involved if the UK had to import gas from Algeria.

.....
.....
.....

(2 marks)

(d) How many countries operate all their nuclear plants without BNFL personnel?

.....

(1 mark)

—
4

—
6

Turn over ▶

