



Thursday 8 January 2015 – Morning

LEVEL 2 AWARD THINKING AND REASONING SKILLS

B901/01 Unit 1 Thinking and Reasoning Skills

Candidates answer on the Question Paper.

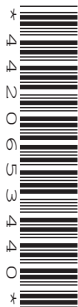
OCR supplied materials:

None

Other materials required:

None

Duration: 1 hour



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

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 **60**.
- Quality of written communication will be assessed in questions 9 and 10.
- This document consists of **16** pages. Any blank pages are indicated.

2
SECTION A

You are advised to spend no more than 30 minutes on this Section.

It is worth 30 marks.

Answer all the questions in this Section.

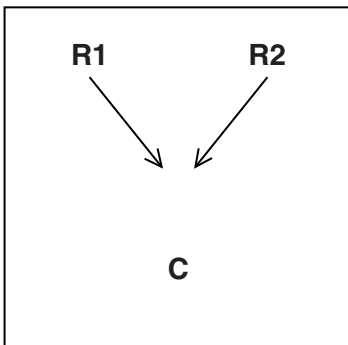
1 Consider the argument in the box below:

Schools should provide pens, paper and folders for all students. This would allow equality between students and it would prevent time being wasted at the beginning of lessons.

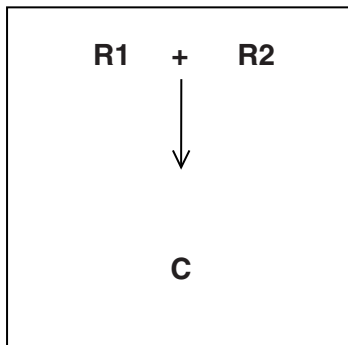
(a) Underline the conclusion. [1]

(b) When asked to provide an argument map for the above argument, three students provided the following maps:

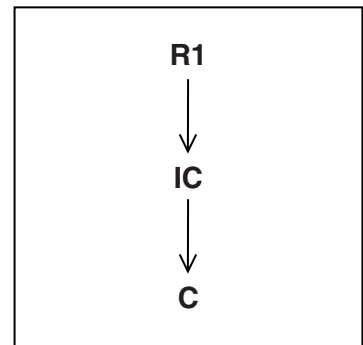
Map A



Map B



Map C



(i) Circle the correct map. [1]

(ii) Explain why this is the right answer.

.....
..... [1]

(c) Identify **two** assumptions in the argument above.

1
.....
2
.....

[2]

2 Read the following argument and answer the questions below:

Albert Einstein was a Nobel Prize-winning physicist. When he arrived at Princeton University in the USA in the 1930s, the first thing he did was to go to an ice cream parlour and buy a vanilla ice cream with chocolate sprinkles. Therefore, ice cream must be good to eat.

(a) Explain the irrelevant appeal in the argument above.

.....
..... [1]

(b) An ice cream parlour in Princeton now displays the following notice.

We have the best ice cream in the universe. Albert Einstein loved our vanilla ice cream with chocolate sprinkles.

Each scoop costs \$1.

(i) Place a tick in the correct box for each of the following statements.

Statement	Fact	Opinion
We have the best ice cream in the universe.		
Each scoop costs \$1.		

[2]

(ii) 'Albert Einstein loved our vanilla ice cream with chocolate sprinkles.'

Explain how the credibility of the ice cream parlour weakens this claim.

.....
.....
.....
..... [2]

- 3 A psychologist believes that young people nowadays are better at learning skills associated with the internet than other skills.

She assesses the skills of six young people. She recorded her findings in the table below.

Name	Age	Male or female	Can download an app on a mobile phone	Can tie shoe laces	Can tell the time
George	11	Male	Yes	Yes	Yes
Hannah	5	Female	Yes	No	No
Isa	7	Male	Yes	Yes	No
Julia	13	Female	Yes	Yes	Yes
Kwesi	3	Male	Yes	No	No
Leeza	9	Female	No	Yes	Yes

- (a) A number of patterns can be identified in the psychologist's findings.

Identify any **two** patterns in the data.

Pattern 1

Pattern 2

[2]

- (b) George claims that the reason Leeza cannot download an app onto a mobile phone must be because she does not own a mobile.

- (i) Choose the statement below which best explains the weakness in George's claim. Tick the correct answer.

Owning a mobile phone is both necessary and sufficient for being able to download an app.	
Owning a mobile phone is neither necessary nor sufficient for being able to download an app.	
Owning a mobile phone is sufficient for being able to download an app, but not necessary.	

[1]

- (ii) Give **three** alternative explanations why Leeza might not be able to download an app onto a mobile phone.

Alternative explanation 1

Alternative explanation 2

Alternative explanation 3

[3]

- (c) The psychologist believes that the internet is getting in the way of young people developing other skills. She wants to design a questionnaire to test this hypothesis which will be aimed at young people.

Write **two** relevant questions she could include in the questionnaire.

Explain why the answer to each question is relevant to testing this hypothesis.

Question 1

Explanation:

.....

.....

Question 2

Explanation:

.....

.....

[4]

- 4 'Students should be allowed to use their phones in lessons because teachers use their phones in lessons.'

Identify and explain the flaw in this argument.

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.....

.....

[2]

5 Four of the students in a Year 11 class were born in different months. Use the information provided to answer the questions below. You can use the matrix to help you.

- Karl was born before Michael.
- Michael was born four months after Nora.
- Nora was born after Layla but before Karl.

	November 1998	January 1999	March 1999	May 1999
Karl				
Layla				
Michael				
Nora				

(a) Use the information above to complete the following sentences:

- (i) The student who was born in January 1999 is [1]
- (ii) The student who was born in March 1999 is [1]
- (iii) The youngest student is [1]

(b) Research shows that on average children born during autumn months achieve higher exam results at GCSE than those born later in the school year.

Another student in the class concluded that, of the four students, the one born in November 1998 will be the most successful at GCSE. Explain why this cannot be reliably concluded from the information above.

.....

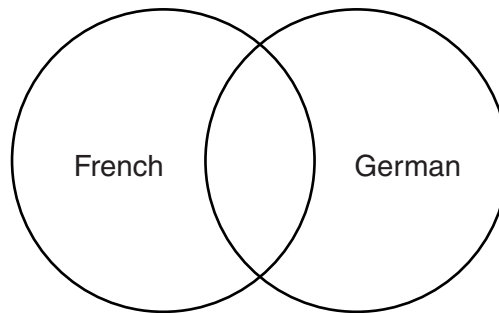
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..... [2]

- 6 There is a year group of 50 students: 18 study French, 26 study German, and 2 of these students study both French and German.

Complete the Venn Diagram in order to answer the questions below.



- (a) How many students study only French? [1]
- (b) How many students study only German? [1]
- (c) How many students study neither French nor German? [1]

SECTION B

You are advised to spend no more than 30 minutes on this Section.

It is worth 30 marks.

Answer all the questions in this Section.

Read the following documents carefully before attempting to answer the questions:

Document A: The 'Elgin Marbles'

The 'Elgin Marbles' is a collection of sculptures, inscriptions and architectural features on display in the British Museum. They were originally part of the Parthenon, an ancient temple in Athens, Greece.

The Marbles were removed, with permission, between 1801 and 1805 by Lord Elgin, who was the British ambassador at the time. The British Parliament bought these objects from Lord Elgin in 1816. They were given to the British Museum in London, where they have been ever since.



Other material from the Parthenon was taken both before and after Elgin's time. The remainder of the surviving sculptures that are not in Athens are in museums in various locations across Europe.

In 1963, Parliament made it law that the British Museum keeps the 'Elgin Marbles' forever. However, some people believe that the 'Elgin Marbles' should be returned to Greece.

Document B: Statement from a writer

The 'Elgin Marbles' should not be returned. If everything went back to where it came from, there would be nothing left in the world's museums. The environmental conditions in Athens mean that they can never go back on the Parthenon itself anyway. The British Museum has looked after them really well.

Document C: Extract from the British Museum Website

The British Museum contains a collection of art and antiquities that are held in trust for the nation and the world. The Parthenon sculptures have been a part of this collection for the best part of 200 years. They are displayed in purpose-built galleries seen every year by millions of visitors, free of charge.

Document D: View from a TV presenter

Treasures and artefacts from ancient cultures belong in the places they came from. Museums in the USA, the Vatican and Sweden have already returned to Greece some of the items taken from the Parthenon. If museums in other countries can, so should the British Museum. It would be classy for the museum to do this and would let Greece earn a profit from tourist visitors.

Document E: Survey of Museum Directors

The directors of 20 museums in London were asked what they would do if their artefacts had to be returned to the countries of origin. Their answers from a list of five choices were:

Choice	Number of directors who would do this
Introduce or raise entrance charges/fees	12
Make an appeal for donations	8
Reduce the number of staff	4
Cut wages	3
Close altogether	1

7 Read Document E.

- (a) (i)** Identify **one** weakness in the survey and suggest how the survey could be improved to overcome this weakness.

Weakness 1

Improvement 1 [2]

- (ii)** Identify a **second** weakness in the survey and suggest how the survey could be improved to overcome this weakness.

Weakness 2

Improvement 2 [2]

(b) A student reviewed the results of the survey and made the following conclusions:

Conclusion A: *'If the artefacts had to be returned, only one museum would have to close.'*

Conclusion B: *'If the artefacts had to be returned, museum entrance fees would be increased.'*

(i) Explain why conclusion A cannot reliably be drawn.

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.....
.....
..... [2]

(ii) Explain why conclusion B cannot reliably be drawn.

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.....
.....
..... [2]

(c) Suggest **one** choice that could be considered by the museum directors **other** than those shown in Document E.

.....
..... [1]

(d) Suggest **two** relevant criteria that could be used by museum directors to decide on the best choice for their museums.

Criterion 1

Criterion 2 [2]

8 Read Documents B, C and D.

Which of the three documents agrees most strongly with the following claims? Tick the correct boxes in the table below.

Claim	Document B	Document C	Document D
If the 'Elgin Marbles' were returned to Athens, further damage may occur to them.			
Other countries have returned their artefacts to the country of origin, we should as well.			
The 'Elgin Marbles' give pleasure to huge numbers of museum visitors every year.			

[3]

9 Write an argument to support or challenge the claim that:

'The 'Elgin Marbles' should be returned to Greece'.

Your argument should include:

- a precise conclusion
- which is clearly supported by reasons
- with relevant evidence and/or examples.

In developing your argument you may use ideas and materials from the documents.

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[10]

ADDITIONAL ANSWER SPACE

If additional answer space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margins.

A large area of lined paper for writing answers. It features a vertical margin line on the left side and horizontal dotted lines for writing. The lines are evenly spaced and extend across the width of the page.

A large area of the page is reserved for writing, featuring a vertical margin line on the left and horizontal dotted lines for ruling.



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