

Wednesday 12 June 2013 – Afternoon

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 15 and 16.
- This document consists of **16** pages. Any blank pages are indicated.

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 A teacher offers the following argument:

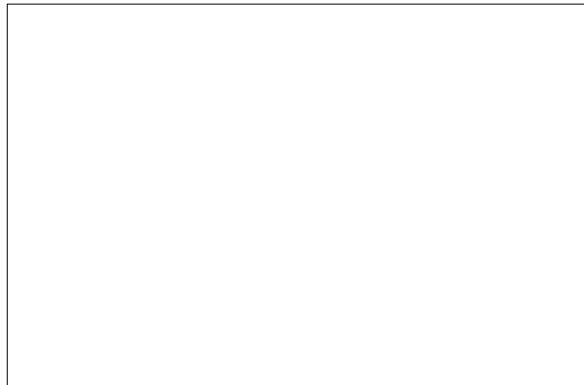
You have broken the rules. So you deserve to be punished. Detention is a good punishment. Therefore you will be put in detention.

(a) Mark up the above argument as follows:

- circle both indicator words
- put brackets around the intermediate conclusion
- underline the main conclusion.

[4]

(b) Draw an argument map in the box provided for the above argument.



[3]

2 Read the following four claims:

Claim A: Paris has an underground railway system.

Claim B: Paris is a beautiful city.

Claim C: Paris is a city in France.

Claim D: The Eiffel Tower is in Paris.

(a) Identify which of the above claims is an opinion.

..... [1]

(b) Explain your answer.

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

3 A student offers the following argument:

“I know that you have caught me cheating in the exam and I know this means my exam paper won’t be marked. But you should mark it anyway because otherwise it will break my mother’s heart.”

Identify and explain the weakness in the student’s reasoning.

.....
.....
.....
.....
.....
..... [3]

4 Governments always need to save money and schools are very expensive to run.

(a) Identify **two** practical and sensible options which could be introduced to cut back on spending on schools without seriously damaging students' education.

(i) Option 1:
 [1]

(ii) Option 2:
 [1]

(b) Choose **one** of these options. Explain how it will save money **and** how it will not seriously damage students' education.

.....

 [2]

5 There are three overlapping circles, A, B and C in one field.

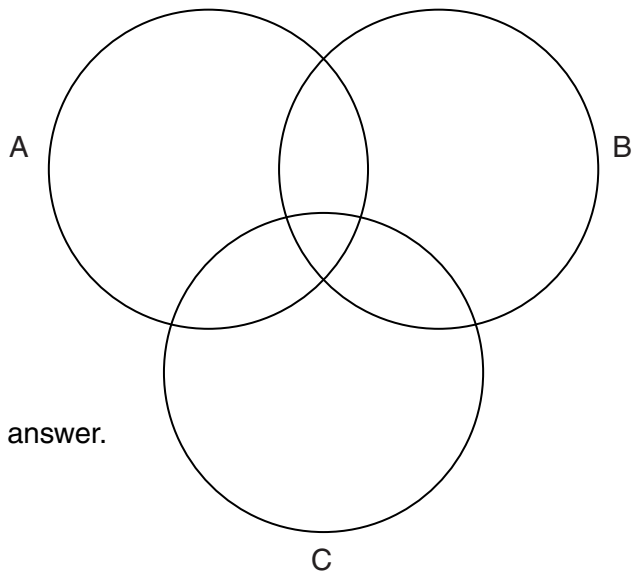
- There are three cows in the overlap between circles A and B.
- There is one cow in the overlap between circles B and C.
- There are eight cows in total in circle A.
- There are six cows in total in circle B.
- There are eight cows in total in circle C.
- There are no cows in the field outside of the circles.

How many cows are there in the field?

- 24 cows
- 22 cows
- 20 cows
- 18 cows

Circle the correct answer.

You can use the circles to help work out your answer.



[1]

6 Bill and Ben are brothers. Bill is four years older than Ben. Together their ages add up to 18 years.

How old are Bill and Ben?

Bill is years old.

Ben is years old.

[1]

7 Jimmy wants to win the election to be Head Boy at his school. He makes a list of things he plans to do to win the election. This list is given below.

X Get 100% of the vote.

Y Stand as a candidate.

Z Talk to every voter before the election.

Complete the following sentences by choosing the correct letter from the list of things Jimmy plans to do:

(a) Statement is necessary but not sufficient. [1]

(b) Statement is neither necessary nor sufficient. [1]

(c) Statement is sufficient but not necessary. [1]

8 Alice, Barry, Christine and Daniel are all applying to study different subjects at university.

The boy applying for history lives in the same village as the girl applying for physics.

The person applying for physics is Christine's best friend.

The student applying for German is in the same class as the boys applying for history and economics.

Barry lives next door to the student applying for history.

Use the following matrix to work out which student is applying for which subject, and then complete the sentences below:

	Economics	German	History	Physics
Alice				
Barry				
Christine				
Daniel				

Alice is applying to study

Barry is applying to study

Christine is applying to study

Daniel is applying to study

[4]

9 Read carefully the information in the box:

- In a marathon involving five runners the runner who finished second took five hours.
- Ahmed finished the race three hours and fifteen minutes before Jos.
- Rachel finished the race one hour before Shannon.
- Terry took two hours longer than the runner who was third.
- Jos was one hour faster than Terry but two hours slower than Rachel.

Identify the order in which each runner completed the race and also calculate how long it took each of them to complete the race.

The person who came first was and it took them to complete the race.

The person who came second was and it took them five hours to complete the race.

The person who came third was and it took them to complete the race.

The person who came fourth was and it took them to complete the race.

The person who came fifth was and it took them to complete the race.

[5]

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 document carefully:

Thief or modern day Robin Hood?

Background Information: St John's is an old church, which is in constant need of repair, in a poor area of Liverpool. Normally up to 80 people go to the church services. These are mainly elderly and live nearby on a run-down housing estate. The church council is responsible for looking after the church building and finances and is made up of five professional people who no longer live in the area. The vicar at the church, the Reverend Spoon, has just died at the age of 78. He took over the church 10 years earlier.

Comments from the members of the church council

Mr Bank: It is a shock but the Reverend Spoon was a thief. I can prove it. We have just agreed that we five church councillors each give £5 every week to the church. Well there are about 100 people in church each week so that makes over £500 a week. Over a year that is easily £25 000. Over ten years that is £250 000. But I have just discovered there is only £5 000 in the bank. Spoon must have stolen the rest!

Mrs Bank: My husband is right. It all adds up. When the Reverend Spoon came here ten years ago he was short of cash. We even had to lend him money for a bike so he could visit people in the parish. Then he started to splash money around like he was a millionaire. He soon got rid of the bike and bought himself a second hand car and that cost him a fortune because it kept breaking down. Not to mention the fancy new umbrella, hat and scarf he used to get himself every Christmas. He was clearly stealing church funds.

Mrs Warden: I am not sure. I seem to remember he had two wealthy sisters. One died shortly after he came here. The other was very fond of him and wrote him long letters every Christmas. Anyway why point the finger at him? It could have been any one of us. He used to keep the church money in a drawer in his office and it stayed there until he took the money to the bank on a Friday. We used to meet in the office two or three times a week. And so did Mr Clifford the church accountant. He was always coming up with ideas on how to invest the money.

Mrs Jordan: That is true. Mr Clifford left the area very suddenly six months ago. He was supposed to have lost his job as an accountant. But I have heard a rumour he is living in a big house in Cheshire with the ex-wife of a football star. It looks suspicious to me. He used to attend all our meetings to give us financial advice. But perhaps Mr Mansfield can tell us more about Mr Clifford. I've heard that he and Mr Mansfield have recently bought property in Spain together.

Mr Mansfield: Not Mr Clifford, I was at school with him! The fact is Spoon must have done it, he was too generous. He was always giving large sums of money to charity. I used to wonder where it came from and now we know. But let us not get the police involved. His mind was going. He was always forgetting where he put things – that is why he needed a hundred umbrellas! So he probably didn't even realise that what he was doing was stealing. Even though Spoon stole from the church funds to give to famine relief, that is really just like the government taxing the rich to pay for hospitals and schools. So if it is not wrong to tax people then what Spoon did was not wrong either. If you use the money for good it is not really stealing. He wasn't a thief, just a modern day Robin Hood.

10 Using the information provided, identify and explain **two** weaknesses in Mr Bank's reasoning which leads him to conclude that the church should have collected £250 000 over the past ten years.

(a) Weakness 1:
.....
.....
..... [2]

(b) Weakness 2:
.....
.....
..... [2]

11 If Mr Bank is correct, £250 000 was collected. Give **one** alternative explanation, other than the money being stolen, for there only being £5 000 in the bank.

Alternative Explanation:
.....
.....
..... [2]

12 As a detective you suspect that no money has been stolen. What evidence would you look for to support this hypothesis?

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

13 Mr Mansfield makes an analogy between the Reverend Spoon stealing from church funds to give to famine relief and the government taxing the rich to pay for schools and hospitals. He uses this analogy to claim that what the Reverend Spoon did was therefore “not wrong”.

(a) Identify and explain **one** significant similarity between the two situations in this analogy.

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

(b) Identify and explain **one** significant difference between the two situations in this analogy.

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

14 Mr Mansfield denies that Mr Clifford could have stolen the money and puts the blame clearly on the Reverend Spoon.

Identify **one** relevant credibility criterion and explain how this could weaken Mr Mansfield’s credibility as a witness.

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

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 vertical solid line is positioned on the left side of the page. From this line, 25 horizontal dotted lines extend across the page, creating a series of rows for writing.

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A large area of the page is reserved for writing, featuring a vertical solid line on the left side and horizontal dotted lines extending across the page.



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