OCR
Oxford Cambridge and RSA

Thursday 22 June 2017 – 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	

Centre number						Candidate number				

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 page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.

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

© OCR 2017 [Y/502/0967]
DC (SCD (AC)) 141830/1

OCR is an exempt Charity

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:

> As long as my car does not break down, I should be able to get to the interview on time. My car has never broken down before. So I should be able to get to the interview on time.

(a) Mark up the argument as follows:

(i) Underline the conclusion. **[1]**

(ii) Put brackets around **one** reason. **[1]**

(iii) Circle **one** conclusion indicator word. **[1]**

(b) Explain why this argument contains a false appeal.

.....

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

(c) Which of the following statements is correct? Tick the correct answer.

Getting to an interview on time is a necessary but not a sufficient condition of getting a job.	
Getting to an interview on time is a sufficient condition of getting a job.	
Your car not breaking down is a sufficient condition of getting to an interview on time.	
Getting to the interview on time is neither a necessary nor a sufficient condition of getting a job.	

[1]

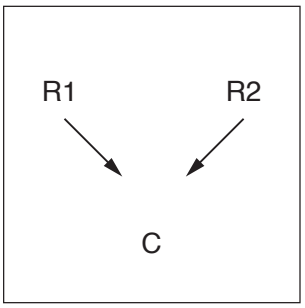
© OCR 2017

2 Consider the argument in the box below:

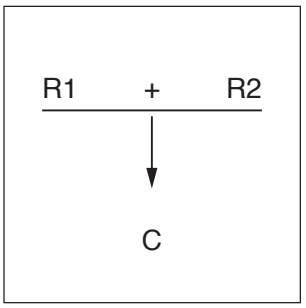
Lisa is getting a new smartphone for her birthday. Lisa's phone is not going to be pink. Therefore, Lisa will be getting a white smartphone.

(a) When asked to provide an argument map for the above argument, one student provided Map A and another provided Map B.

Map A



Map B



(i) Circle the correct map. **[1]**

(ii) Explain why this is the correct answer.

.....

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

(b) The argument above contains a flaw.

(i) Identify the flaw in the above argument. Tick the correct answer.

Slippery slope	
False dilemma	
Straw man	
Ad hominem	

[1]

(ii) Explain why this is the correct answer.

.....

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

© OCR 2017

3 Oliver is an 11 year old boy who has to do a school project about an endangered species. He decides it is a good idea to conduct a survey of his friends and family to find out whether or not people believe emperor penguins to be endangered.

The full results of Oliver's survey are in the table below:

Name	Gender	Age	Favourite Animal	Do you think emperor penguins are an endangered species?
Augustine	M	14	Cat	No
Brendan	M	11	Dog	Yes
Constantine	M	13	Cat	No
Declan	M	21	Cat	Yes
Erasmus	M	17	Snake	No
Florentina	F	11	Rabbit	Yes
Gwendolene	F	13	Horse	Don't know
Hyacinth	F	11	Horse	Yes
Immaculata	F	20	Horse	No

(a) Identify **three** patterns in the results of this survey.

Pattern 1 .....

Pattern 2 .....

Pattern 3 .....

[3]

(b) There are several weaknesses in the design of Oliver's survey.

(i) Explain why the number of people included in the survey is a weakness.

.....

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

(ii) Explain why the type of person questioned in the survey is a weakness.

.....

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

(c) Even if Oliver had done a good job of designing his survey, the results would not be a reliable way of finding out if emperor penguins are an endangered species.

Explain why Oliver should not have used a survey in his project.

.....

.....

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

© OCR 2017

4 Joe commutes to London Liverpool Street railway station from Ingatestone every weekday morning. The trains to Liverpool Street regularly leave at 11 minutes to and 11 minutes past each hour from 5.00 am until 10.00 am. It takes 36 minutes to get to Liverpool Street from Ingatestone. It takes Joe a further 7 minutes to get to his office from the station.

(a) What is the latest train Joe can catch if he wants to arrive at his office before 8.00?
Circle the correct answer.

- 6.11
- 6.49
- 7.11
- 7.49

[1]

(b) Joe needs to attend a meeting with a client in his office at 7.30 am but he also needs 20 minutes to prepare before the meeting. What is the latest train he must catch to arrive in enough time to prepare for the meeting?
Circle the correct answer.

- 5.11
- 5.49
- 6.11
- 6.49

[1]

(c) On Wednesday, Joe travelled on the 6.49 train. Having arrived at Liverpool Street, he decided to stop for breakfast on his way to the office. This added another 9 minutes to his journey. What time will Joe arrive at his office?
Circle the correct answer.

- 7.41
- 7.42
- 7.45
- 7.49

[1]

(d) Joe is frustrated that the trains are often late and he is considering driving to work instead of taking the train.

Identify **two** criteria which would be helpful for Joe when he is making his decision about how to get to work.

(i) Criterion 1

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

(ii) Criterion 2

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

© OCR 2017

5 During a visit to the zoo, a group of 24 children were taught the following facts about penguins:

> Fact 1: Penguins drink salt water and they have a special gland in their bodies to filter out the salt.
>
> Fact 2: Leopard seals are one of the main predators of penguins. The seals hide under the ice and wait for their prey.
>
> Fact 3: Penguins are warm-blooded and they often bunch together to keep warm.

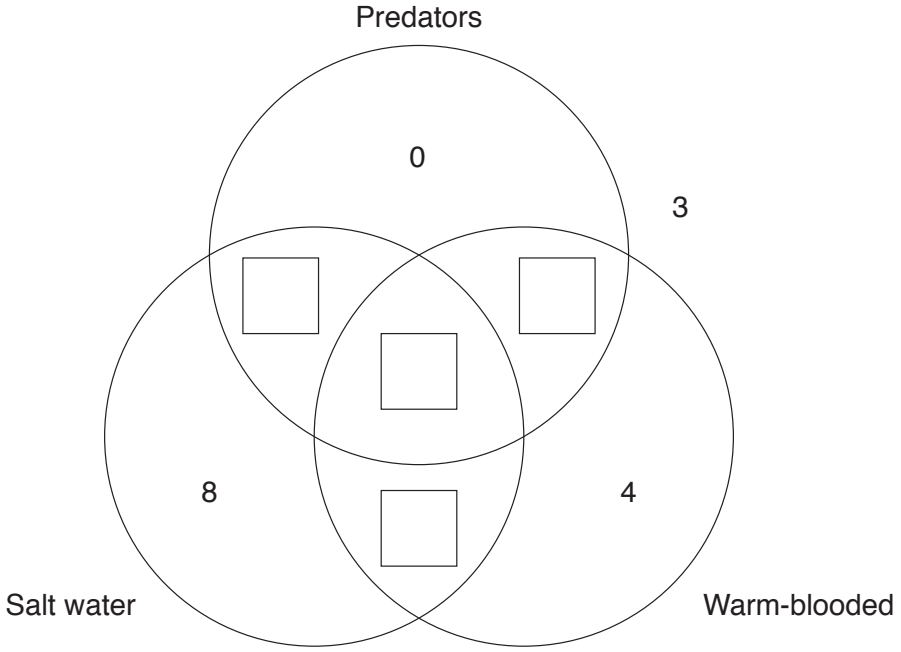
After the visit, the children were questioned to see how much of this information they had remembered.

- 3 children did not remember any of the facts about penguins.
- 16 remembered that penguins drink salt water.
- 12 remembered that penguins are warm-blooded.
- 6 remembered that leopard seals are predators of penguins.
- 4 remembered all the facts they had learned at the zoo.
- 5 remembered that penguins are warm-blooded and that leopard seals are their predators.
- Nobody remembered only the information about the leopard seals.
- 7 remembered that penguins drink salt water and that they are warm-blooded.

(a) How many children remembered at least one of the facts about penguins?

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

(b) Complete the Venn diagram below by entering the correct number into the four empty boxes.



[4]

© OCR 2017

6 Five pupils took a History test. When it came to working out the rank order of the class, the teacher discovered the following:

- Ingrid had achieved a higher mark than Rudolph, but a lower mark than Xavier.
- Octavia had achieved a higher mark than Carmel, but her mark was lower than Rudolph's.

Work out the rank order of these five pupils.

	1st	2nd	3rd	4th	5th
Ingrid					
Rudolph					
Octavia					
Carmel					
Xavier					

(a) The pupil who came first in the test was ..... **[1]**

(b) The pupil who came second in the test was ..... **[1]**

(c) The pupil who came third in the test was ..... **[1]**

(d) The pupil who came fourth in the test was ..... **[1]**

(e) The pupil who came fifth in the test was ..... **[1]**

© OCR 2017

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: Holly, a controversial television personality

If I were in business, I would never employ someone with visible tattoos because I would worry what my customers would think of them. Many major employers such as the NHS do not allow visible tattoos, so if you have tattoos, you are never going to be a high achiever. There are even some countries you cannot get into if you have visible tattoos. Socially, we still look down on tattoos because they are graffiti and graffiti is something we disrespect.

When we look at someone with tattoos, we know this is a person who wants attention, but they haven't been able to get the attention they want by actually achieving something. If they want to get attention, they should try to get it through their wit or intelligence.

Document B: Gaz, a tattoo artist and owner of a tattoo studio

Tattoos are an important means of expressing yourself. Everything else about you changes but your body stays with you for life, so it is important to make it unique. My whole left arm is dedicated to the football team I support. Holly has altered her appearance because she has her ears pierced and she wears make-up. If Holly can change her body, then it must be OK for me to change my body.

Document C: Gloria, a psychologist

I think tattoos look 'common' and I would never want my children to have one. Everyone I know who has had a tattoo regrets having it done. They take minutes to put on but are extremely difficult to remove. Even though people are supposed to be 18 to have a tattoo, lots of younger people get them done using fake ID. You then have 14 or 15 year olds getting the name of their boyfriend tattooed and then regretting it. Having tattoos makes it harder for you to get a good job because having a tattoo is a sign that the person is impulsive and doesn't think ahead.

Document D: Chantelle, a celebrity

My tattoos tell my life story. For example, I have tattoos of the musicians I listened to growing up. I have tattoos dedicated to my mum and dad and to my pets which have passed away.

I don't think people should get fashion tattoos because fashions change. For example, lots of people have had tattoos of barbed wire or tribal patterns and then regretted it. A tattoo has got to mean something to you and it has to be something you will be happy with for the rest of your life.

Discriminating against someone because they have a tattoo is like saying you wouldn't employ someone with ginger hair. It's not fair and it's too judgemental.

© OCR 2017

7 Read Documents A, B, C and D.

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

Claim	Documents A and C	Documents B and D	Documents C and D
Having a tattoo could make it harder to get a job.			
People may regret having a tattoo.			
Tattoos are an important way of expressing who you are.			

[3]

8 Consider the credibility of Gaz (Document B) and Gloria (Document C).

(a) Use **one** credibility criterion to explain how the credibility of Gaz (Document B) is weakened.

.....

.....

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

(b) Use **one** credibility criterion to explain how the credibility of Gloria (Document C) is **either** strengthened **or** weakened.

.....

.....

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

© OCR 2017

9 In Document D, Chantelle uses the following analogy:

'Discriminating against someone because they have a tattoo is like saying you wouldn't employ someone with ginger hair.'

Tick the box against the following statement which you most agree with.

This analogy is strong because the similarities between the two things being compared are more significant than the differences.	
This analogy is weak because the differences between the two things being compared are more significant than the similarities.	

Explain your answer: .....

.....

.....

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

© OCR 2017

10 Consider the following claims made in the documents.

(a) Gaz (Document B) says:

> 'If Holly can change her body, then it must be OK for me to change my body.'

Name the flaw in Gaz's claim.

.....

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

(b) Gloria (Document C) says:

> 'Everyone I know who has had a tattoo regrets having it done.'

Explain the weakness in this claim.

.....

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

(c) Gloria (Document C) says:

> 'Having tattoos makes it harder for you to get a good job because having a tattoo is a sign that the person is impulsive and doesn't think ahead.'

Identify **one** assumption in this claim.

.....

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

© OCR 2017

11 Write an argument to **support** or **challenge** the claim that:

'The legal age for getting a tattoo should be increased to 25.'

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.

.... **[9]**

© OCR 2017

12 Write an argument to **challenge** the claim that:

'It is always wrong to judge people by their appearance.'

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.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... **[9]**

END OF QUESTION PAPER

© OCR 2017

ADDITIONAL ANSWER SPACE

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

© OCR 2017

© OCR 2017

OCR
Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

© OCR 2017