Cambridge Assessment International Education

Cambridge IGCSE™

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

ENGLISH AS A SECOND LANGUAGE **0510/13**

Paper 1 Reading and Writing (Core) **October/November 2020**

1 hour 30 minutes

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- Dictionaries are **not** allowed.

INFORMATION

- The total mark for this paper is 60.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **16** pages. Blank pages are indicated.

© UCLES 2020

Exercise 1

Read the article about Percy Spencer, the man who invented the microwave oven, and then answer the following questions.

Percy Spencer: the inventor of the microwave oven

The inventor of the microwave oven, Percy Spencer, was born in Maine, USA, in 1894. As a boy, he was looked after by his aunt rather than by his mother and father. He was an only child, and as his aunt did not have enough money, Spencer had to leave school at the age of twelve to get a job.



While he was employed at a local factory, he heard that a nearby paper mill wanted to install electricity to provide the power for its equipment. This was of great interest to Spencer, who enjoyed finding out about new things. He learned all he could about electricity, and when the paper mill advertised for people who could install it, Spencer applied and got the job. He was only sixteen.

When he was eighteen, Spencer decided to enter the US Navy. For many, reading stories of famous sailors motivates such a decision. For Spencer, however, it was hearing about the radio operators on the ship Titanic that caused him to apply. They bravely continued calling for help even when their ship was sinking. While in the navy, he became an expert on radio technology. Although he could use radios, he didn't understand how they actually worked. There was no option of attending evening classes at college to find this out, so hard-working Spencer read textbooks while guarding the navy base. He was always determined to do things well, so he also taught himself maths, chemistry and physics.

Spencer loved finding simple solutions to apparently complex problems, and by 1939, he had become one of the world's leading experts in radar. This technology uses radio waves called microwaves to find and follow planes, ships and other objects.

From time to time, Spencer liked to feed the squirrels that lived near his lab, so he would occasionally carry a peanut cluster bar with him. One day, while standing by a radar set, he found that the candy bar in his pocket had melted. Spencer wasn't the first to discover that some substances warmed up unexpectedly when near radars, but he was the first to fully investigate it. He found that a part of the radar called a magnetron produces microwaves, and that these microwaves were responsible for the heating effect. He began using this to try to cook food. The initial test was done on popcorn, which worked perfectly. In a subsequent experiment, Spencer, who had a good sense of humour, was much amused when one of his co-workers ended up with cooked egg on his face after the microwaves had caused it to explode.

Spencer then created the first true microwave oven by attaching a magnetron to a metal box. His company decided to produce these microwaves for domestic use, the first one going on sale in 1947. People seemed attracted by, rather than frightened of, the new technology. Although they were quite noisy, consumers weren't troubled by this. However, many people were put off buying them because they were too large. And even if their kitchens were big enough, nobody could afford one.

Modern microwave ovens are very different and even have glass doors so you can see what's cooking. You might think the microwaves would be able to pass through glass, and you'd be right. The only reason you don't get heated up as well as your food is because on the inside of the door, there's a thin metal net. The holes are too small for microwaves to pass through, but big enough to let light in so you can see your food.

© UCLES 2020

1 Who did Percy Spencer live with when he was a child?

View solution

..... [1]

2 Where was Spencer working when he first became interested in electricity?

View solution

..... [1]

3 Who inspired Spencer to join the US Navy?

View solution

..... [1]

4 When did Spencer find time to study during his time in the US Navy?

View solution

..... [1]

5 Why did Spencer sometimes have something sweet with him while at work?

View solution

..... [1]

6 What was the first food Spencer tried to cook using microwaves?

View solution

..... [1]

7 Why didn't the first microwave ovens sell well? Give **two** details.

View solution

.....

..... [2]

8 What prevents microwaves escaping from modern microwave ovens?

View solution

..... [1]

[Total: 9]

© UCLES 2020

Exercise 2

Read the three sections of the film review (**A–C**). Then answer Question **9(a)–(h)**.

Film Review: *Fisheye's World*

A

Based on a novel by Karen Hudderston, this new fantasy film is directed by Jonas Hartley. You may have seen his superb *Last Days of Wonder* last year. The hero in *Fisheye's World*, Angelo Donnelly, gets on a train dressed in his school uniform as normal, but the train doesn't stop where it's supposed to. In fact, it doesn't stop for hours and when the doors finally open, Angelo finds himself in a very strange world indeed: the world of Mr Fisheye. The first thing he sees there is a strange-looking building with a sign reading 'Mr Fisheye's Home for Lost Animals'. He enters and a great adventure begins. From this minute on, Angelo is transported from his ordinary life into a tale of three-metre-tall, scary-looking but friendly monsters, and days that constantly change in length. Though the film has its faults, it's a wild ride from start to finish. Hartley constructs an entirely impossible world that you can't help being tricked into believing.

B

When reading the novel, it's tremendously difficult to imagine the world that Karen Hudderston created when she wrote *Fisheye's World*. The striking scenes in the book are either too beautiful or too terrifying to picture in your mind's eye. Therefore the job of turning such a story into a movie must have been incredibly challenging for Hartley. The result is far from perfect, as whole sections of the original novel are missing from the film. Nevertheless, Hartley's careful and effective selection of the cast, and the performances he manages to get from them, are impressive. It is these that give the movie even more of its magic. The costumes used in the movie are also fantastic, and they really help to emphasise the enormous differences between the real world and that of Mr Fisheye.

C

Of course, Mr Fisheye's lost animals aren't animals at all. They're kind and gentle monsters that society has rejected because of their huge size and frightening appearance. Hartley has created some superb-looking beasts – far more impressive than in any of his previous films, and even better, in my opinion, than those described in the book. Angelo has a part to play in saving these gentle giants when they, and the whole of Mr Fisheye's world, are faced with destruction by local people. The battle scene between the two sides had the potential to be thrilling. As I was watching it, however, I felt that I'd seen a very similar thing done more effectively in other films. An additional disappointment was that the special effects used in this section of the movie seemed somewhat artificial compared to the rest of the film, and therefore looked a little out of place. However, I'd still very much recommend seeing *Fisheye's World*.

© UCLES 2020

9 For each question, write the correct letter A, B or C on the line.

In which section does the reviewer …

View solution

(a) suggest that one part of the film was unoriginal? ..... [1]

(b) suggest how hard it was to create a film from the original book? View solution ..... [1]

(c) say that the director of *Fisheye's World* made a good film in the past? View solution ..... [1]

(d) explain why the monsters in the film have ended up living with Mr Fisheye? ..... [1]

(e) say that the director's choice of actors for the film is good? View solution ..... [1]

(f) mention an unusual journey the main character makes? View solution ..... [1]

(g) say that what the actors wear is an important part of the film? View solution ..... [1]

(h) suggest that the director has created an extraordinary setting for the film? ..... [1]

[Total: 8]

View solution

Exercise 3

Read the article about water balls, and then complete the notes.

Water balls

An exciting new product from a company called Skipping Rocks Lab

Water is essential for life, so you may not be surprised to learn that one million plastic bottles of water are bought globally every minute. However, less than half of these are recycled, with the majority ending up in our oceans or buried underground, causing pollution and creating problems for future generations. But what's the alternative? Two students, Pierre Paslier and Rodrigo Garcia Gonzalez, who met while studying design engineering in London, believe they've come up with a solution: water balls!

The two students wanted to use their knowledge and skills to develop a different kind of water container. It took three years of working on the technology to come up with the unique water ball design. They have now set up their own company, Skipping Rocks Lab, which aims to eventually prevent 1 billion plastic bottles from entering the oceans each year.

So what do these water balls look like? They're small and round and look like a transparent bubble. They have a thicker outer skin which you peel off. This reveals a thinner skin which contains the water. Both skins are made from 100% natural plant material. You can either put the whole ball in your mouth, because it can be eaten, or tear a hole in it and drink the water that way. Whichever you choose, there's no harmful waste. The water balls only come in three sizes at present (20 ml, 55 ml and 150 ml). However, the company says that it intends to develop a bigger product at some stage.

One disadvantage of the water balls is that, because the skin is a natural product, it only keeps the water fresh for a few days. The plus side of this, however, is that the skins naturally decay within four to six weeks, the same time as a piece of fruit takes to decay.

When the two students came up with the idea of water balls, they used the internet to advertise for money to finance their project and managed to raise £850 000 in just 72 hours – more than double their initial target of £400 000. It seems that a water container that takes nine times less energy to make than plastic is an idea that gets people and businesses interested. To make the most of this interest, the company wants to provide fast food chains with machines for producing water balls themselves.

However, Skipping Rocks Lab is thinking big. Their aim is to replace a whole range of plastic objects like cups and plates with plant-based materials. And as the manufacture of water balls produces five times less carbon dioxide than plastic bottles, the company is confident that it can become one of the world's principal producers of environmentally friendly packaging.

© UCLES 2020

You are going to give a talk about water balls to your class at school. Prepare some notes to use as the basis for your talk.

Make short notes under each heading.

10 Why water balls are environmentally friendly:

View solution

- *not made of plastic*
- .....
- .....
- .....
- ..... [4]

11 What the company's future plans are:

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

[Total: 7]

View solution

Exercise 4

View solution

12 Read the blog about going to an air show.

Write a summary of the advice the blogger gives for visiting the air show.

Your summary should be about 80 words long (and no more than 90 words long). You should use your own words as far as possible.

You will receive up to 6 marks for the content of your summary, and up to 6 marks for the style and accuracy of your language.

VISITING THE DEANSTANTON AIR SHOW

My favourite day out is at the Deanstanton Air Show that takes place in July every year. I love seeing the amazing aeroplanes and helicopters there. As it's happening soon, I thought I'd tell you about it, in case you're thinking of visiting the show.

The site is massive so make sure you get a map of it on your way in. The air show is on a huge old airfield and there's a café, entertainment and loads of exhibits like old planes and engines. You can go on a guided tour but it's important to book a place on one beforehand if you want to do this, as it's very popular. The tour guides take you around all of the exhibits at the show and give you lots of information. Visitors are allowed to sit in a few of the planes, in a similar way to other air shows. Don't let really young children get in the planes, even though the website says that kids of any age can do this. One of my kids climbed in and then couldn't get out!

Although there are hundreds of planes to see on the ground, quite a lot fly during the show, too. Stand in front of the café to get the best view, as it's not too busy and they fly right over this area. Food and drink can be expensive there, especially if you're going with your family, so I'd strongly suggest that you take your own food and drinks, but there are plenty of food stalls available if you choose not to.

The show starts at 11 a.m., but the gates open a couple of hours before. I'd definitely recommend you get to the show as early as you can because the queues are really long later on. The parking there can be a nightmare so, if it's possible, get a train to the airfield. The nearest station is only a kilometre away and it's a nice walk. There's no guarantee of good weather, of course, so don't forget to take a raincoat, just in case.

Anyway, if you decide to go, I'll maybe see you there!

© UCLES 2020

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

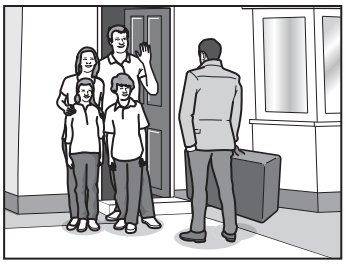
.....

.....

.....

[Total: 12]

Exercise 5





View solution

13 A relative who you hadn't seen for a long time came to stay at your home for a week recently.

Write an email to a friend telling them about your relative's visit.

In your email, you should:

- explain why your relative hadn't visited you for such a long time
- describe what you all did together during your relative's stay
- say what plans you made to meet your relative again in the future.

The pictures above may give you some ideas, and you can also use some ideas of your own.

Your email should be between 100 and 150 words long.

You will receive up to 6 marks for the content of your email, and up to 6 marks for the language used.

© UCLES 2020

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

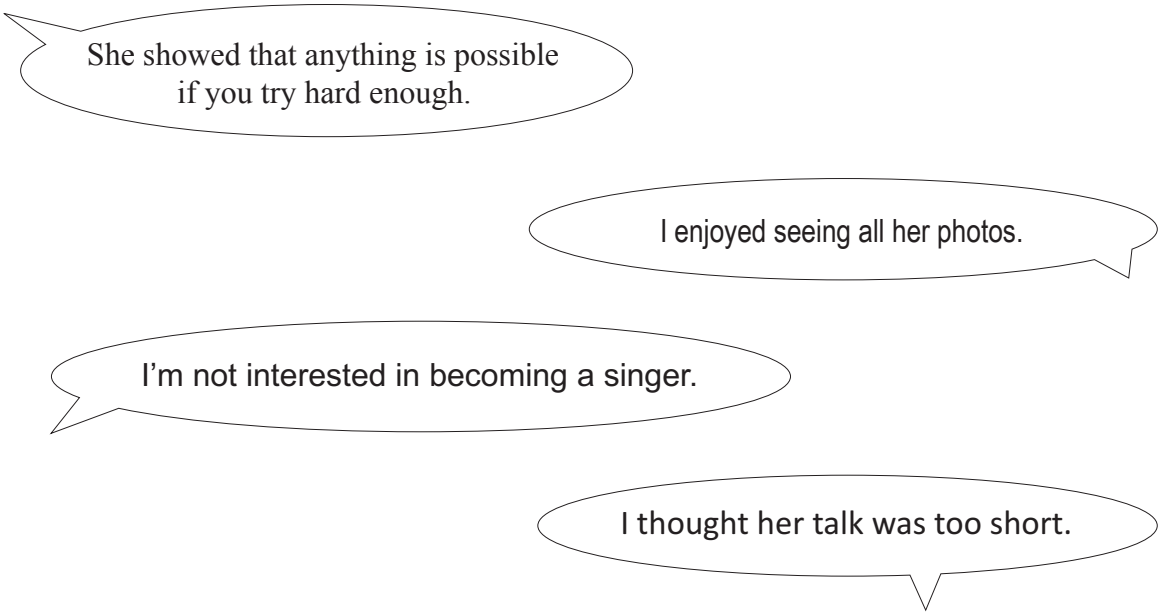
[Total: 12]

Exercise 6

14 A famous singer recently came to give a talk to the students at your school about her life and work. Your head teacher has asked you to write a report about the talk **and** make suggestions for a future talk.

View solution

Here are some comments from other students in your class:



Write a report for your head teacher.

The comments above may give you some ideas, and you can also use some ideas of your own.

Your report should be between 100 and 150 words long.

You will receive up to 6 marks for the content of your report, and up to 6 marks for the language used.

© UCLES 2020

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[Total: 12]

BLANK PAGE

BLANK PAGE

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

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

© UCLES 2020