



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE
NAME

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ENGLISH AS A SECOND LANGUAGE

0511/22

Paper 2 Reading and Writing (Extended)

May/June 2017

2 hours

Candidates answer on the Question Paper.

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Dictionaries are **not** allowed.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **15** printed pages and **1** blank page.

Exercise 1

Read the guide about a Dark Sky Park in Northumberland in the UK, and then answer the following questions.

NORTHUMBERLAND DARK SKY PARK

About the Park

In Northumberland Dark Sky Park, in England, you can experience a night sky that is truly amazing. The skies are unpolluted by city lights, and this is the perfect place to come and spend time looking at the stars and planets. The park is the first of its kind in England, and the fourth largest in the world.



Managing the Park

All the lighting in the visitor centre and along the paths to the viewing platforms has to be monitored and controlled by staff so that the amount of light produced is kept as low as possible. This ensures that visitors have a perfect environment in which to view the stars. It is estimated that 85% of the UK population has never experienced the beauty of a clear night filled with billions of stars. It is not just stargazers who benefit from the limited lighting. The park is home to many nocturnal species, and the darker conditions create a suitable natural habitat for bats. There is also plenty for visitors to see during the day, including deer and a variety of birds.

Visitor Information

Although the park is open all year round, the best time for stargazing is during the autumn and winter months because daylight hours are the shortest. Many visitors prefer to bring binoculars, as although they don't provide such good views of the planets, they are easier to use and are also less expensive than a telescope. But if you do decide on a telescope, keep it simple and portable. You could easily spend over £2000 on the most up-to-date models, which are able to track objects in the sky automatically, without having to adjust the telescope manually. However, you don't need to spend this amount – a basic telescope will still give you good views of the night sky.

Visitors often spend many hours looking at the stars. At first, it can be difficult to see clearly in such a dark environment. For the majority of people, twenty minutes is enough time for their eyes to adjust to low light levels, although some find it can take up to forty minutes. You can bring a normal torch to help you find your way, but the white light that it produces does affect your ability to see in the dark. However, red light doesn't create this problem so, for best results, we recommend that you put a red cover over a normal torch. If you prefer, we sell suitable torches with a red light in the visitor centre, or alternatively, you can bring a red bike light if it's not too bright.

For more information go to www.visitskypark.com

- (a) Why is this area of Northumberland an ideal place to see stars?
.....[1]
- (b) What do employees do to improve the experience of visitors?
.....[1]
- (c) Which creatures benefit from the lack of light in the park?
.....[1]
- (d) Why is it better to visit the park during certain times of the year?
.....[1]
- (e) What is **one** advantage of using binoculars rather than a telescope?
.....[1]
- (f) What special feature does an advanced telescope have?
.....[1]
- (g) How long does it take most people to get used to seeing in the dark?
.....[1]
- (h) What can you do instead of buying a special torch? Give **two** details.
.....
.....[2]

[Total: 9]

Exercise 2

Read the article about sleep, and then answer the following questions.

A good night's sleep

Most of us spend a third of our lives sleeping, although some people say they need as little as four hours sleep a night. There are various factors which affect sleep – just ask nurses or factory employees who sometimes work night shifts how difficult they find it to change their sleep routines. We know that sleep is essential for brain growth, and also for maintaining memory skills. Although it has been said that the function of sleep is to give the body a chance to rest and recover, this is not entirely true. In reality, the amount of energy gained by sleeping is tiny – about the same as the energy we get from eating a piece of toast.

One way to understand the role of sleep is to look at what happens if you have too little. Some research has shown that sleep-deprived adults are less productive at work. If you have ever stayed up all night, you may have noticed some negative after-effects the next day, such as finding it hard to remember simple things at school. After just one night without sleep, you may struggle to concentrate in class.

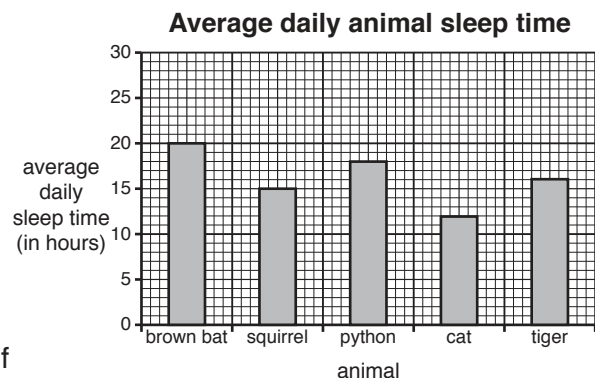
Many people find their sleep is disturbed as a result of not having enough relaxing ‘wind-down’ time before going to bed. It is recommended that people should not look at screens for an hour before sleep. If we don’t switch off our devices, our brains can’t switch off either.

It has also been suggested that long-term sleep loss may increase the risk of obesity. Your body produces important chemicals while you sleep, which are vital for controlling how hungry you feel the next day. If your body doesn’t produce sufficient levels of these chemicals, over time this may mean you put on weight.

According to Professor Joanna Kelly of the National Sleep Centre, the time spent sleeping each day declines during our lives. Newborn babies have 16 hours’ sleep daily, which decreases to 12 hours by the time young children reach the age of two. This gradual decrease in sleep continues through childhood, with teenagers typically needing about 9 hours to function at their best. Although the research findings indicate this is the ideal situation, from her experience as the mother of teenage daughters, Joanna knows all too well that this does not always happen. Adults need about 8 hours’ sleep, although as we get older, the quality of our sleep can suffer because we wake up frequently during the night.

Just like humans, age also affects the sleep of animals. Another consideration is their position in the food chain – lower down the food chain, animals like deer must remain alert to possible predators, while those animals near the top tend to get more sleep, because they have little to fear. Captivity can also have a role – animals often sleep more in zoos, as they are safe from predators.

There are no definite rules about the ideal amount of sleep humans require. Professor Kelly sums up by saying: “The amount we need is the level that allows us to stay alert. My work with families suggests that some might benefit from changing their lifestyles.” Our lives today are busy, and although regular sporting activities after work or college are great at providing exercise, this can also mean that we eat large meals late in the evening. This can cause digestion problems, which affect sleep, so a light snack is often preferable if you want a good night’s sleep.



- (a) What is sleep important for?
.....[1]
- (b) How can a lack of sleep affect studying? Give **two** details.
.....
.....[2]
- (c) What is the short-term effect of chemicals released during sleep?
.....[1]
- (d) On average, how long do two-year-olds sleep each day?
.....[1]
- (e) How does Professor Kelly know that the research recommendations may not be realistic?
.....[1]
- (f) What factors influence the sleeping habits of animals? Give **two** details.
.....
.....[2]
- (g) According to the chart, which animal sleeps for the longest time each day, and for how long?
.....[1]
- (h) What conclusion does Professor Kelly come to about how much sleep people should have?
.....[1]
- (i) What type of meal is said to be more suitable to eat late at night?
.....[1]
- (j) What factors have a negative effect on human sleep? Give **four** details.
.....
.....
.....
.....[4]

[Total: 15]

Exercise 3

Ryan Taylor is an Australian teenager. He enjoys taking part in a range of outdoor activities, and is hoping to develop a career in this area. In order to find out what this might be like, he has decided to go on an activity holiday, run by an organisation called Action Adventure. Their main office is at 110 Abermarle Street, Perth. They run five-day and seven-day holidays, and Ryan has chosen the shorter one.

Ryan was born on 13 March 2001 and lives at 265 High Grove Road, Perth, with his parents, David and Jessica Taylor, and his younger sister, Amelia. His personal email address is rwalk@neus.net.au but he is giving Action Adventure his family email address, walkers@aust.net.au as a point of contact, because his parents also need to receive information about the holiday. It might be difficult to get in touch with Ryan's father as he's travelling abroad when Ryan is hoping to have his holiday, but his mother will be at home in case of emergencies. She is not expecting any problems as, although Ryan is allergic to eggs, he is generally very fit and healthy and knows which foods to avoid.

Ryan's mother would be happy to take him by car for the start of his holiday on 8 April, but she is having a small operation on her back on 29 March and is worried she won't be able to drive. There is, however, a good train service which will take him close to the activity centre, and from there the centre provides a minibus service twice a day. Because he is travelling by train, he is bringing a minimum amount of luggage with him – just clothes and personal wash items, rather than bedding. He is interested in anything the centre can provide that will help reduce the amount he has to carry.

There is a choice of activities available on-site, including football and river swimming, and participants are encouraged to sign up for a main activity. Ryan loves rock climbing, and there are some fairly tough climbs located near the centre. He has read about these in a magazine, and has decided that this is the activity he is most keen to try. He lives near the sea, so he spends a lot of time in and around water. Because of this, he is not as interested in things like sailing or kayaking as he would prefer to try something different on his holiday. He is interested in learning more about the geology of the area, and there are some caves nearby which he would like to explore. On a holiday last year, the whole family went horse riding, and while the other members of his family really enjoyed it, it wasn't such a success for Ryan.

Ryan has made some enquiries with Action Adventure, and they have sent him the registration form for his holiday.

Imagine you are Ryan. Complete the form, using the information above.

Action Adventure Registration Form

Section A: Personal Details

Full name:

Date of birth:

Address:

Preferred contact details:

Emergency contact (full name): Relationship:

Section B: Holiday Details

Start date:

Length of stay:

Details of any dietary considerations:

Do you need a sleeping bag and pillow? (please delete) YES/NO

Please choose **one** main activity and **one** additional activity from this list:

kayaking rock climbing horse riding caving sailing

Main activity: Additional activity:

Section C

In the space below, write **one** sentence of between 12 and 20 words telling us how you are hoping to benefit from your Action Adventure holiday.

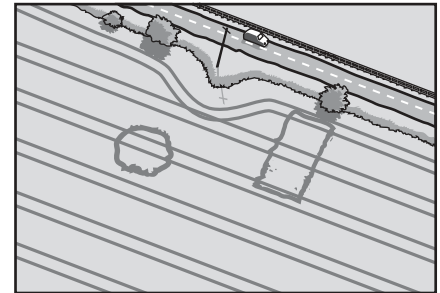
[Total: 8]

Exercise 4

Read the article about the way amateur archaeologists use satellite technology, and then complete the notes on the following page.

Satellite imagery

Nowadays, satellite technology is used to provide information on everything from population growth to forecasting the weather and making maps. This last example is particularly useful to those people with an interest in archaeology. In 2014, an amateur archaeologist called David Young was looking at an area of local countryside on a satellite map, when he noticed a single tree right in the middle of a field. David explains, "In the past, when farmers hit something large and hard while working in their fields, they often planted a small tree. This was easier than digging the object up, and reminded them to avoid this spot in future." When David investigated the area around the single tree, he found some buried coins in a large pot. In another image, he noticed a narrow strip of land where the grass was not growing well. This indicated that there was once an ancient roadway which had been buried over time. When he went to this location, he discovered some ancient cooking tools left behind by travellers who had probably stopped to eat.



David has some advice for other amateur archaeologists: "Unusual patterns in fields today can sometimes suggest evidence of an ancient community. However, as many of these fields will be on private farmland, remember to ask permission from the farmer before you start exploring a site." Landowners have reported that animals have escaped from their fields because gates have been left open. Additionally, some farmers have complained that crops have been damaged by people digging up an area that they think may contain something exciting.

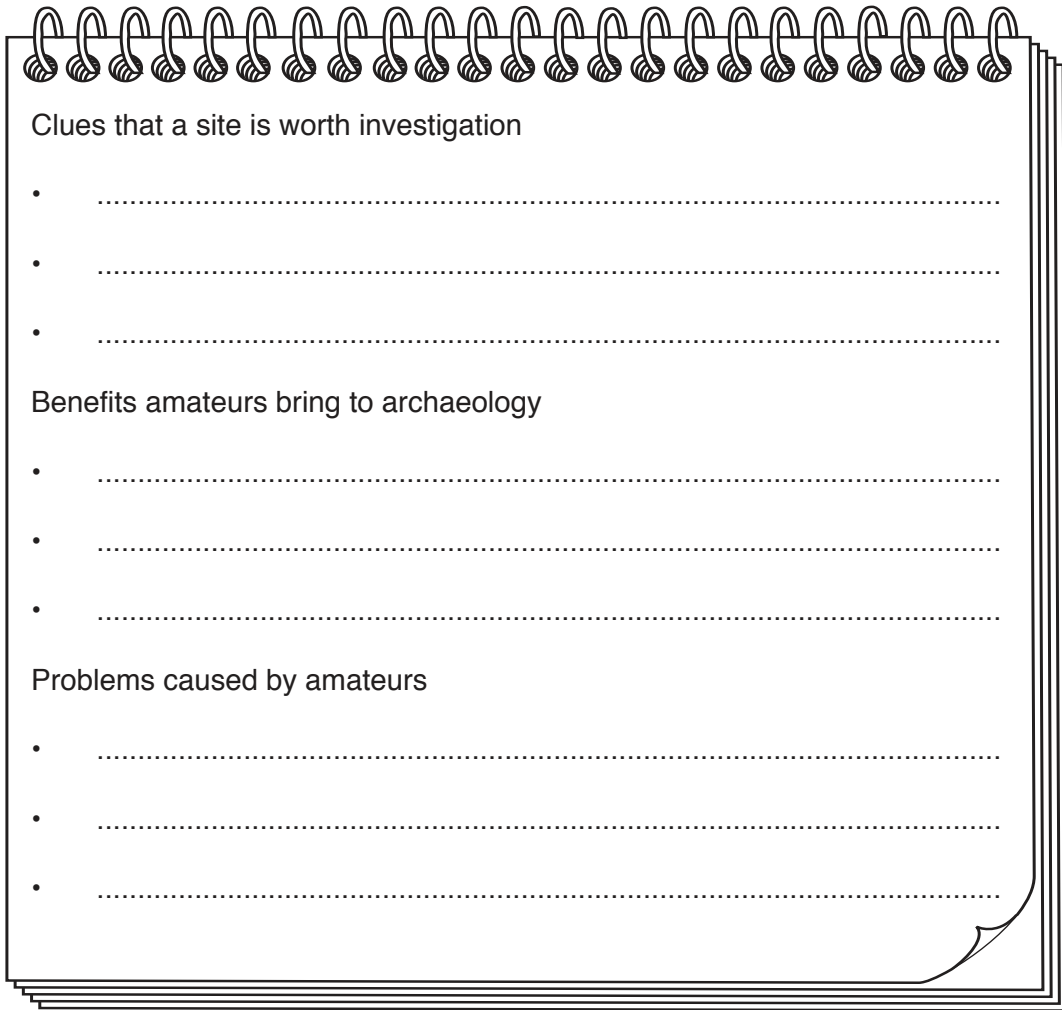
Although amateur archaeologists don't generally use the more sophisticated technology and equipment that professionals have, the satellite images that are freely available online have made archaeology more accessible to everyone, with many advantages. For example, in just one year, amateur archaeologists identified the locations of hundreds of potentially interesting sites. This is important because as cities all over the world continue to expand, new building work can permanently cover places of historical importance. Amateur archaeologists are often able to provide details of the specific size of an area of interest, then professionals can decide whether or not to investigate further.

As well as being helpful in finding potential sites of worldwide importance, amateurs also have local knowledge which can be a valuable source of information for the professionals. They often look at images of places closer to their homes, and find things that might otherwise go unnoticed. For example, even strangely shaped areas of forest can be worth further professional investigation. Once a possible site has been identified, it is important that amateurs inform the professional archaeologists, who understand the importance of recording exactly where items are found. This information can be lost if the correct procedures are not followed when the object is removed from the ground. Also, some people keep what they find for themselves, rather than sharing their discovery.

"If you find something of interest, contact the experts. If you want to be more involved, join a local archaeology group. It will probably have links to professional archaeologists," says David. Indeed, many professionals rely on amateurs for a variety of things, from the discovery of possible sites to assisting at the site itself. It is a relationship that can work well for both groups.

You are going to give a talk to your class about amateur archaeologists and the use of satellite technology. Prepare some notes to use as the basis for your talk.

Make short notes under each heading.



Clues that a site is worth investigation

-
-
-

Benefits amateurs bring to archaeology

-
-
-

Problems caused by amateurs

-
-
-

[Total: 9]

Exercise 5

Read the following article on learning to write computer programmes, or 'coding'. **Write a summary about the advantages of learning to code, AND the disadvantages of the different ways people learn how to code.**

Your summary should be about 100 words long (and no more than 120 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 5 marks for the style and accuracy of your language.

Coding

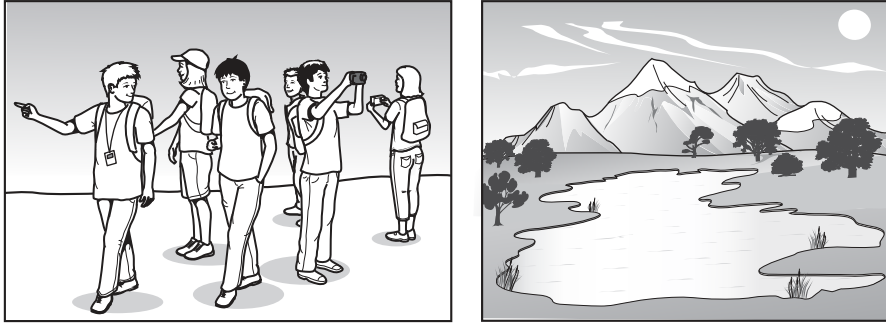
The world of education has certainly been transformed by technology. Students learn how to use it, but they only occasionally learn how it works. Now the realisation that there is a gap between using technology and understanding it is prompting a new approach – that of teaching young people how to write computer programmes, or to 'code'.

Those people who can code are likely to find a wide range of professional job opportunities open to them, today and in the future. Many employers in the social network industries are looking for new recruits with coding skills, but it is not only technology companies which are looking for those who can code. Nowadays, all industries rely heavily on their software programmes. This makes someone who can design specific in-house software packages very appealing to potential employers. Although traditional printed books cannot keep up to date with online learning materials, sales of coding books have dramatically increased. There are some excellent books available, and many people prefer to have a physical resource to refer back to. More and more people are taking the opportunity to gain a qualification in coding to improve their career prospects.

Coding teaches you how to think clearly and logically, which are skills that can be transferred into many areas of employment, not just technology. Comparisons have been made between the attention to detail needed when learning to code and the precise ways of working in, for example, architecture or law. This knowledge should encourage students to try out one of the coding clubs that are proving increasingly popular in colleges around the world. Tomas Stiller runs one of these clubs. He explains that it is a good way to learn, even though some people find it difficult to have enough time to attend regularly. In a few short weeks, you will be able to build useful applications and websites. Having a face-to-face tutor means students can ask questions and interact, although attending a club can be too expensive for some.

If you really can't devote the time to attend a club, there are other ways to learn. An obvious choice is an online training package. There are many free sites available, for example codecollege.com. This will introduce you to the basics of coding while you have fun creating simple games. You'll have all the resources you need to get started, but these free sites only offer an introduction to coding. There are a huge number of sites out there, but as anyone can post information, you cannot always be certain that the information online is reliable. Although this can be frustrating when you are trying to find specific details, the mountain of coding information is an indication of the huge number of people out there with a shared interest in learning how to code.

Exercise 6



You have recently been on an educational trip with your college.

Write an email to a friend in another country about the trip.

In your email, you should:

- describe the place you went to
- say what you learned there
- explain how you are going to use this knowledge in the future.

The pictures above may give you some ideas, and you should try to use some ideas of your own.

Your email should be between 150 and 200 words long.

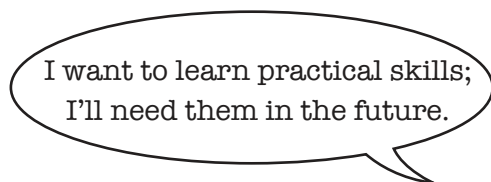
You will receive up to 10 marks for the content of your email, and up to 9 marks for the style and accuracy of your language.

Dotted lines for writing

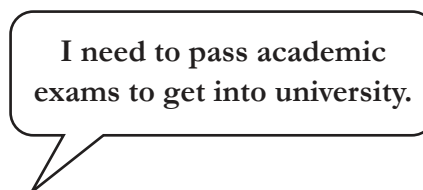
Exercise 7

Some people think that practical subjects like cookery and woodwork should not be taught in schools, and that only academic subjects are important.

Here are two comments from young people about this idea:

A speech bubble with a tail pointing towards the bottom right. It contains the text: "I want to learn practical skills; I'll need them in the future."

I want to learn practical skills;
I'll need them in the future.

A speech bubble with a tail pointing towards the bottom left. It contains the text: "I need to pass academic exams to get into university."

I need to pass academic
exams to get into university.

Write an article for your school magazine, giving your views.

The comments above may give you some ideas, and you should try to use some ideas of your own.

Your article should be between 150 and 200 words long.

You will receive up to 10 marks for the content of your article, and up to 9 marks for the style and accuracy of your language.

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