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Surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

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Candidate Number

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English

Level 1

Component 2: Reading

6 – 10 November 2017

Time: 45 minutes

Paper Reference

E102/01

You may use a dictionary.

Total Marks

My signature confirms that I will not discuss the content of the test with anyone until the end of the 5 day test window.

Signature: _____

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Sign the declaration.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- You do not need to write in sentences.

Information

- The total mark for this paper is 20.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Check your answers if you have time at the end.

Turn over ►

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Pearson

SECTION A

Read Text A and answer questions 1 – 7.

Text A

You read this article.

Busy as a bee

Honeybees are extremely important but their numbers are falling in the UK. These small insects fly from plant to plant in their search for food. When they land on a plant, they get a covering of pollen which they carry to the next plant. This process is called pollination. It means that the plant can make seeds.

Honeybees pollinate a third of everything we eat. They live together in hives and can fly up to five miles a day. The honeybees from a single hive can pollinate half a million plants in one day.

We need honeybees to pollinate most fruit and vegetables, as well as other food for farm animals. Fruit and berries eaten by birds also come from plants pollinated by honeybees.

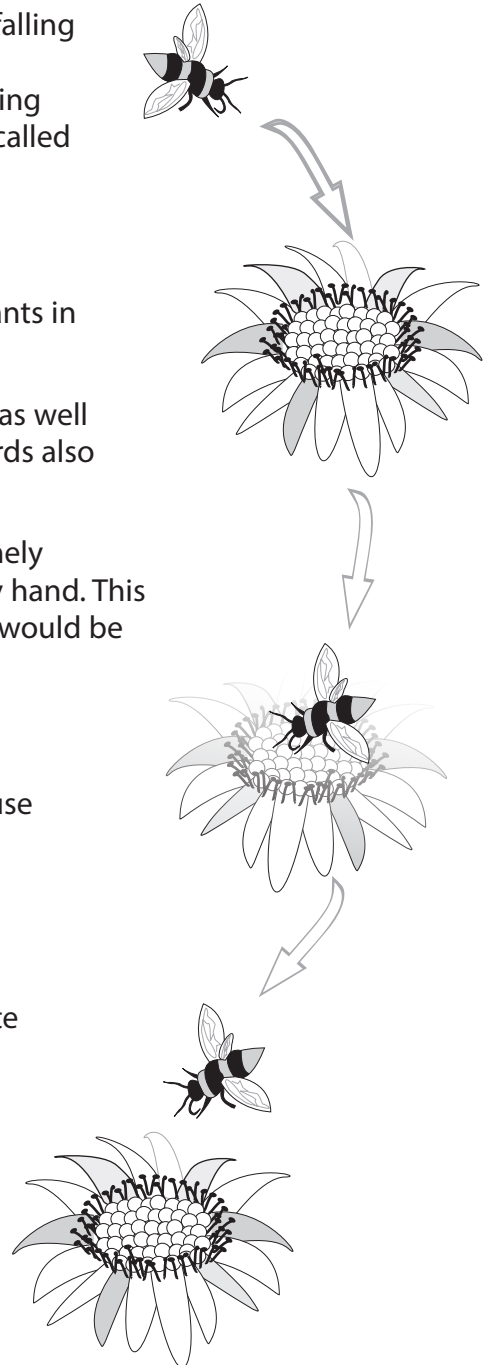
The decline in the number of honeybees is therefore extremely serious. Without them, we would have to pollinate plants by hand. This would take too much time and be too expensive. Less food would be produced so prices would rise.

So why are honeybees in decline? There are many reasons. Some die because of disease. Research suggests that the most important reason for the decline of honeybees is the use of chemicals to kill weeds. These chemicals can also kill the honeybees.

Apparently, genetically modified (GM) plants (grown from seeds created in laboratories) and radiation from mobile phone masts do not harm honeybees. However, both climate change and bad weather kill many.

In the USA and Canada, there are blue orchard bees rather than honeybees. These bees are blue rather than brown and orange. They live alone, not in hives and are slightly smaller than honeybees. Two thousand blue orchard bees can do the work of 100,000 honeybees!

Hopefully the honeybee can be saved before it is too late.



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Answer questions 1 to 3 with a cross in the box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 The **main** purpose of Text A is to:

- A describe the damage genetically modified plants do to honeybees
- B explain how bad weather damages plants used to feed farm animals
- C complain about possible radiation damage from mobile phone masts
- D inform the reader about the decline in the number of honeybees

(Total for Question 1 = 1 mark)

2 According to Text A, the blue orchard bee:

- A is brown and orange
- B is larger than a honeybee
- C lives with other bees in a hive
- D does more work than a honeybee

(Total for Question 2 = 1 mark)

3 According to Text A, which **one** of the following statements is correct?

- A Honeybees can fly ten miles a day.
- B Honeybees pollinate a third of everything we eat.
- C Honeybees are used as food for farm animals.
- D Honeybees eat fruit and berries.

(Total for Question 3 = 1 mark)



4 Using Text A, name **one** country where blue orchard bees pollinate plants.

You do **not** need to write in sentences.

.....

.....

(Total for Question 4 = 1 mark)

5 Paragraphs are one of the features of Text A that help to present information.

Name **two other** features of Text A that help to present information.

You do **not** need to write in sentences.

1

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2

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(Total for Question 5 = 2 marks)

6 Your friend is writing a report about the reasons for the decline in the number of honeybees.

Using information from Text A, give **two** reasons for the decline in the number of honeybees for your friend to include in her report.

You do **not** need to write in sentences.

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(Total for Question 6 = 2 marks)

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7 Your relative thinks that pollinating plants by hand would be a good idea.

Using information in Text A, give **two** reasons why people do **not** pollinate plants by hand.

You do **not** need to write in sentences.

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(Total for Question 7 = 2 marks)

TOTAL FOR SECTION A = 10 MARKS

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SECTION B

Read Text B and answer questions 8 – 13.

Text B

You read this information sheet.

Bee Helpful

In the UK there are 250 different types of wild bees, which live on their own rather than in hives and are smaller than honeybees. Wild bees do not need to live in the countryside because they prefer a town or city environment. They are harmless and do not have a painful sting so there is no need to be frightened of them. Please support your local bees by creating a bee-friendly space in your neighbourhood.

Winter can be a good time to start planning. You need to decide on a suitable space such as a garden, balcony or backyard that gets lots of sunshine. You will also need to provide the bees with somewhere to live. Buy a few bamboo canes, cut them to a length of 20 cm, tie them together and hang them up at about head height. Make sure the bamboo canes are dry because bees hate anywhere damp.

Books written by experts recommend choosing plants that will attract bees and bloom from spring to late summer. Bees prefer plants with 'open' flowers without lots of petals, making it easier for them to get to the centre of the flower where the nectar (their food) is.

Suitable plants are:

- spring – crocus, redcurrant, apple
- early summer – strawberry, sweet pea, chive
- late summer – lavender, honeysuckle, sage

You should place a group of the same plant close together to make it more attractive for the bees because they have excellent colour vision and especially like blue, white and yellow.

Bees need to drink so make sure they have water. Place a shallow bowl on the ground and add water. Then place stones in the bowl for the bees to rest on and top up with water daily.

For further information go to: www.thewildbeeinmygarden.net, email: emily@bees.web or phone 01122334455.

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Answer question 8 with a cross in the box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

8 The **main** purpose of Text B is to:

- A tell the reader how to create a bee-friendly space
- B explain how much it would cost to build a beehive
- C inform the reader about bees' poor colour vision
- D describe the best way to avoid being stung by a bee

(Total for Question 8 = 1 mark)

Answer question 9 with a cross in the two boxes you think are correct ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

9 According to Text B, which **two** of the following statements are correct?

- A Wild bees live in hives with other bees.
- B Wild bees like living in bamboo canes.
- C Wild bees are larger than other bees.
- D Wild bees prefer living in the countryside.
- E Wild bees like damp places to live.
- F Wild bees do not have a painful sting.

(Total for Question 9 = 2 marks)



10 Using Text B, give **two** pieces of advice about how to choose and place suitable plants to attract bees.

You do **not** need to write in sentences.

1

2

(Total for Question 10 = 2 marks)

11 Your friend wants to know more about wild bees.

Using Text B, give **two** ways your friend can find out more information about wild bees.

You do **not** need to write in sentences.

1

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(Total for Question 11 = 2 marks)

12 According to Text B, what length should you cut bamboo canes for the bees?

You do **not** need to write in sentences.

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(Total for Question 12 = 1 mark)

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13 Your relative wants to provide a suitable drinking place for the bees.

Using Text B, give **two** things your relative needs to do to set up a suitable drinking place for bees.

You do **not** need to write in sentences.

1

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(Total for Question 13 = 2 marks)

TOTAL FOR SECTION B = 10 MARKS
TOTAL FOR PAPER = 20 MARKS

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