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Centre number		Candidate number	
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GCSE GEOGRAPHY

Paper 1 Living with the physical environment

Tuesday 22 May 2018

Afternoon

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- the insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.

Answer all questions in Section A and Section B.

Answer two questions in Section C

L	Answer two questions in Section C.	
,	You must answer the questions in the spaces provided page or on blank pages. Do all rough work in this book be marked.	

Information

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 88.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Question 01.12.

For Examiner's Use			
Section	Mark		
1			
2			
3			
4			
5			
TOTAL			



For the multiple-choice questions, completely fill in the circle alongside the appropriate answer.

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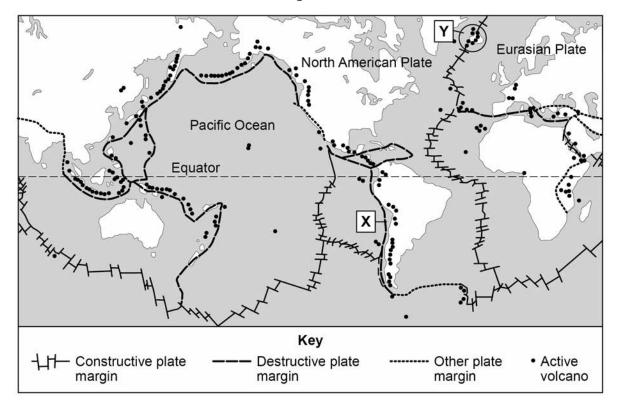
Section A The challenge of natural hazards

Answer all questions in this section.

Question 1 The challenge of natural hazards

Study Figure 1, a world map showing plate margins and active volcanoes.

Figure 1





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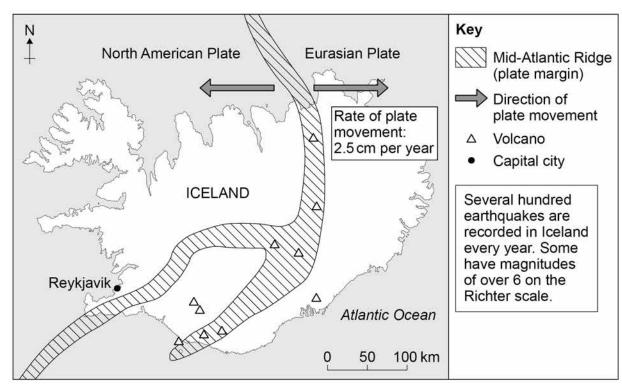
outside the

0 1.1	Using Figure 1 , which one of the following statements is true?			Do not write outside the box
	Shade one circle only.			
	A All active volcanoes occur in lines along plate margins.	0		
	B There are more active volcanoes along constructive margins than destructive margins.	0		
	C There are many active volcanoes around the edge of the Pacific Ocean.	0		
	D Active volcanoes are found along the eastern side of North and South America.	0		
			[1 mark]	
0 1.2	Describe the movement of plates along plate margin X.		[1 mark]	
			[1 mark]	
	Question 1 continues on the next page			
	Question i continues on the next page			



Study **Figure 2**, a map of Iceland showing the tectonic plates. The area is labelled Y on **Figure 1**.

Figure 2



0 1.3 Using **Figure 2**, how long will it take for the plates to move 100 metres?

Shade **one** circle only.

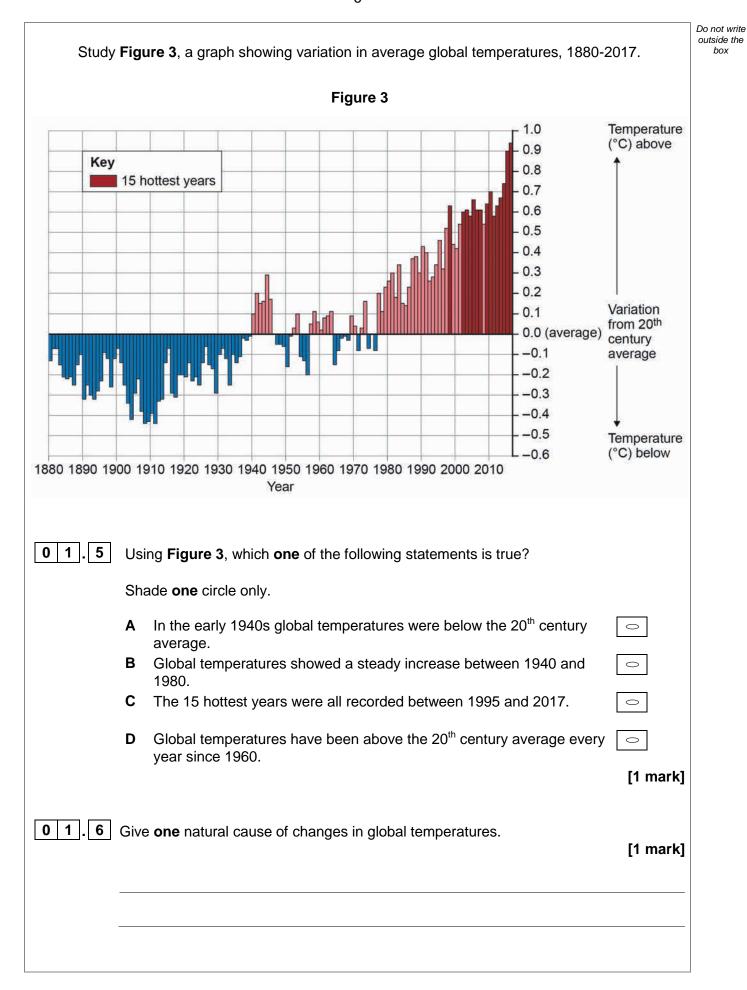
A 80 years	
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[1 mark]



0 1 . 4	Using Figure 2 and your own understanding, suggest how plate movements car	Do not write outside the box
	tectonic hazards in Iceland. [6	marks]
	Extra space	
	Question 1 continues on the next page	
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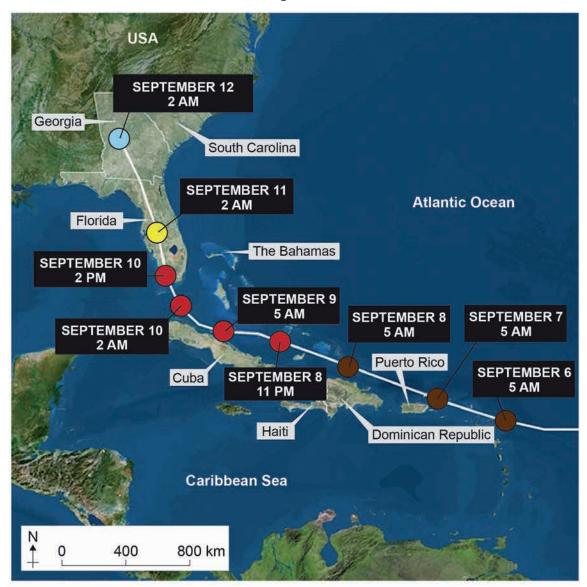
0 1.7	Give two pieces of evidence, other than the change in global temperature, that show climate change has taken place. [2 marks] 1.	Do not write outside the box
	2.	
0 1.8	Explain how the increasing use of fossil fuels and changes in agriculture may have contributed to global changes in temperature. [4 marks]	
	Extra space	
	Question 1 continues on the next page	



Do not write outside the box

Study Figure 4, a map showing the track of Hurricane Irma in September 2017.

Figure 4



Saffir-Simpson Hurricane Wind Scale

Category	Wind speed (km/hour)	
1	119-153	
2	154-177	0
3	178-208	
4	209-251	
5	252 or higher	



	Using Figure 4 , describe the track of Hurricane Irma between 6 September 2017 and 12 September 2017.	Do not wri outside th box
	[2 marks]	
0 1.1	Using Figure 4 , what happened to the wind speed of Hurricane Irma between 8 and 12 September 2017?	
	[1 mark]	
0 1.1	Give one reason why the wind speed of a tropical storm (hurricane) may change as it reaches land.	
	[1 mark]	
	Question 1 continues on the next page	





Study **Figure 5**, a news report and photograph showing the effects of Hurricane Irma on the Dutch island of Sint Maarten.

Figure 5

'Hurricane Irma hit several islands in the Caribbean on 6 September 2017, with devastating consequences for the local population. On Sint Maarten, it has so far resulted in eight deaths. Officials say that 95% of the island has been destroyed and the international airport and harbour have been seriously damaged. Power, running water and most communications have been knocked out by this powerful storm.'



Photo: Overturned shipping containers in Sint Maarten

0 1 . 1 2	Assess the extent to which tropical storms have effects on people and the environment.
	Use Figure 5 and an example you have studied. [9 marks] [+ 3 SPaG marks]



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End of Section A



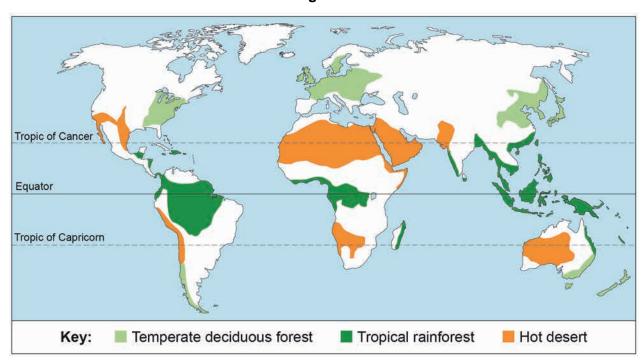
Section B The living world

Answer all questions in this section.

Question 2 The living world

Study **Figure 6**, a world map showing some global ecosystems.

Figure 6



0 2 . 1 Using **Figure 6**, which **one** of the following statements is true?

Shade one circle only.

- A There is a greater area of hot desert in the Southern Hemisphere than the Northern Hemisphere.
- **B** The largest single area of tropical rainforest is in South America.
- **C** Temperate deciduous forests are all found on the western side of continents.
- **D** Hot desert areas are all found between the two tropics.

[1 mark]

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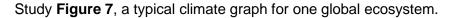
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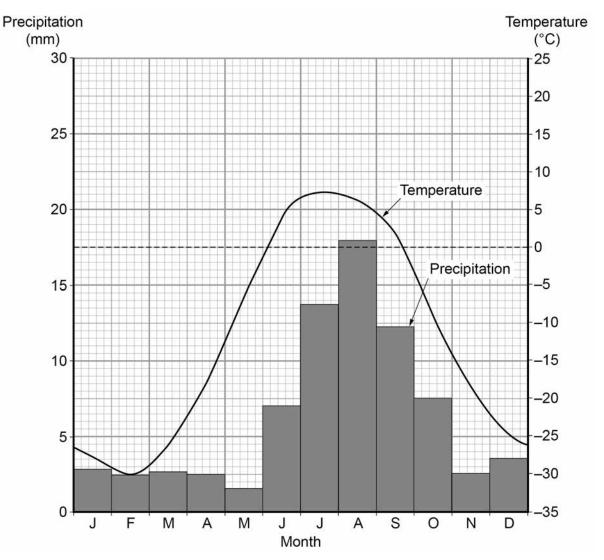


0 2.2	Outline one reason for the distribution of tropical rainforest. [2 marks]	Do not write outside the box
	Question 2 continues on the next page	









0 2. 3 Which global ecosystem is most likely to have the temperature and precipitation pattern shown in **Figure 7**?

Shade one circle only.

Α	temperate deciduous forest	0
---	----------------------------	---

B tundra

C hot desert

D savanna

[1 mark]



			_
0 2.4	State the minimum temperature shown in Figure 7 .		Do not write outside the box
	Shade one circle only.		
	A -26°C		
	B –28°C		
	C –30°C		
	D -32°C		
		[1 mark]	
0 2 . 5	Give one reason why polar regions have low temperatures throughout the ye		
		[1 mark]	
	Question 2 continues on the next page		



Study Figure 8, two photographs showing different parts of a tropical rainforest.

Figure 8



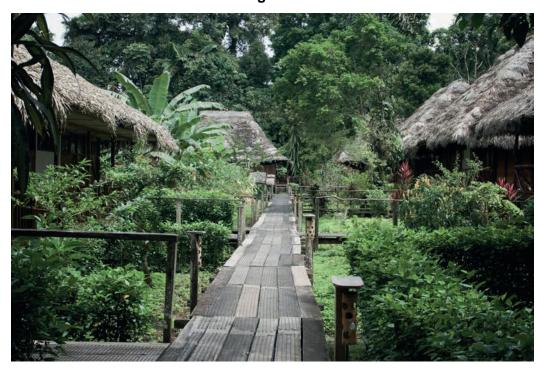




0 2.6	Using Figure 8 and your own understanding, explain how development in tropical rainforests creates economic advantages but at a cost to the environment.	Do not write outside the box
	[6 mark	s]
		_
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	Question 2 continues on the next page	
		I

Study **Figure 9**, a photograph of part of an ecotourism scheme in the Amazon rainforest, Brazil.

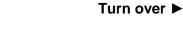
Figure 9



0 2 . 7	Using Figure 9 , suggest how ecotourism can help in managing tropical rainto sustainably.	orests
	odotamasiy.	[2 marks]
0 2 . 8	Explain how either international hardwood agreements or selective logging of encourage the sustainable management of tropical rainforests.	can
	chocarage the education management of troplear failine education.	[2 marks]



0 2 . 9	Choose one of the following environments.	Do not write outside the box
	Hot desert environment	
	Cold environment	
	Tick the box to show which environment you have chosen.	
	Using a case study, to what extent have opportunities for economic activity been developed in your chosen environment?	
	[9 marks]	
	Extra space	





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		box
		25
		25
	End of Section B	
1		



Section C Physical landscapes in the UK

Answer **two** questions from the following:

Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial).

Question 3	Coastal landscapes in the UK
	Study Figure 10 on the insert, a 1:50 000 Ordnance Survey map of the Woolacombe area in North Devon.
0 3.1	Using Figure 10 , give the four-figure grid reference for a headland with cliffs. Shade one circle only.

C 4240	D 4441	0
	5 4444	
B 4643	C 4240	0
	B 4643	0

[1 mark]

0

0	3	. 2	2	Using Figure 10, which of the following coastal features is not shown in grid square
				4339?

Shade one circle only.

D A coastal spit

A 4542

A	An area of sand dunes	0
В	A rocky wave cut platform	0
С	A wide sandy beach	0

[1 mark]

Question 3 continues on the next page



Using **Figure 10**, what is the length and average width of Woolacombe beach between 456438 (labelled X) and 445407 (labelled Y)?

Do not write outside the box

Shade one circle only.

A Beach length 3.8 km, average width 0.7 km

0

B Beach length 4.1 km, average width 0.2 km

0

C Beach length 3.3 km, average width 0.4 km

0

D Beach length 3.0 km, average width 0.9 km

[1 mark]

0 3 . 4 Using **Figure 10**, suggest **one** reason why this coastline has suitable conditions for the formation of sand dunes.

[1 mark]

Study **Figure 11**, a photograph of part of the coastline shown in **Figure 10**.

Figure 11





0 3.5	Using Figure 11 , identify the landform marked Z. [1 mark]	Do not writ outside the box
0 3.6	Explain how a coastline of headlands and bays forms and changes over time. [4 marks]	
	Extra space	
	Question 3 continues on the next page	



0 3.7	'Coastal management schemes are effective in protecting the coastline from physical processes.'	Do not write outside the box
	Do you agree?	
	Using an example, explain your answer. [6 marks]	
	Extra space	
		15
	End of Question 3	



Question 4	River landscapes in the UK	Do not write outside the box
	Study Figure 12 on the insert, a 1:50 000 Ordnance Survey map of the River Severn in Shropshire.	
0 4.1	Using Figure 12, give the four-figure grid reference for a river floodplain.	
	Shade one circle only.	
	A 6407	
	B 6304	
	C 6205	
	D 6005	
	[1 mark]	
0 4.2	Using Figure 12 , which of the following statements best describes the features of grid square 6205?	
	Shade one circle only.	
	A A steeply sloping wooded area rising to over 250 metres in the north.	
	B A gently sloping river valley with a small tributary entering from the north.	
	C A south facing slope with a stream and small tributary flowing through woodland.	
	D A wide flat river valley with a steeper slope in the north, rising from 50 to 80 metres.	
	[1 mark]	
0 4.3	Suggest one way the upper course of the River Severn may be different from that	
	shown in Figure 12 . [1 mark]	
	Question 4 continues on the next page	



Study **Figure 13**, a photograph of the River Severn and its valley. The photographer was looking north east.

Figure 13



0 4 . 4	Using Figures 12 and 13 , what is the height of the land (in metres) at the po X on Figure 13 ?	int marked
	•	[1 mark]
0 4 . 5	Describe one feature of the meander at Y on Figure 13 .	[1 mark]



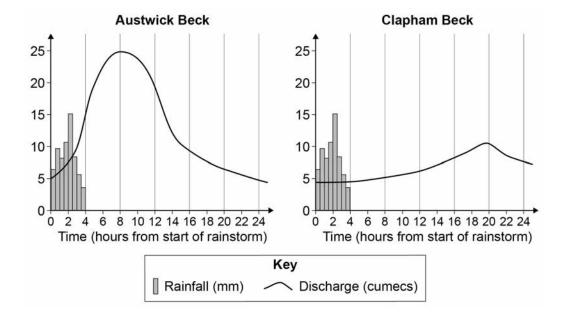
0 4.6	Explain how river meanders may change over time.	[4 marks]	Do not write outside the box
	Extra space		
	Overtion 4 continues on the next next		
	Question 4 continues on the next page		



Study Figure 14, flood hydrographs for two different streams after the same storm.

Do not write outside the box

Figure 14



0	4	. 7	'Differences in the shape of flood hydrographs are caused by both human and
			physical factors.'

Do you agree?

Use Figure 14 and your own understanding to explain your answer.	[6 marks]



Extra space		
	End of Question 4	



Question 5	Glacial landscapes in the UK		
	Study Figure 15 on the insert, a 1:50 000 Ordnance Survey map of particles Cairngorm Mountains in Scotland.	art of the	:
0 5.1	Using Figure 15, which grid square matches the following description	?	
	'There is a valley with a stream in the north. The land rises steeply southwards. It becomes more gentle towards the summit in the south, reaching a height of almost 1000 metres.'		
	Shade one circle only.		
	A 0201	0	
	B 0299	\bigcirc	
	C 9900	0	
	D 9902	0	
			[1 mark]
0 5.2	Locate Loch Avon centred in grid square 0102. What is the length (be and Y) and maximum depth of Loch Avon?	etween p	oints X
	Shade one circle only.		
	A Length 2.5 km, maximum depth over 30 metres	0	
	B Length 4.6 km, maximum depth 30 metres	0	
	C Length 2.1 km, maximum depth 40 metres	0	
	D Length 4.8 km, maximum depth over 40 metres	0	
			[1 mark]
0 5.3	Suggest one reason for the shape of Loch Avon.		[1 mark]
			rwird



Study **Figure 16**, a photograph of Loch Etchachan, with Ben Macdui (989989) in the background.

Figure 16



0 5 . 4	Using Figures 15 and 16 , in which direction was the photographer far picture was taken?	cing when the
	Shade one circle only.	
	A South east	0
	B South west	0
	C North west	0
	D North east	0
		[1 mark]

Question 5 continues on the next page

0 5. 5 Describe **one** feature of the corrie at Z on **Figure 16**.

Turn over ▶

[1 mark]

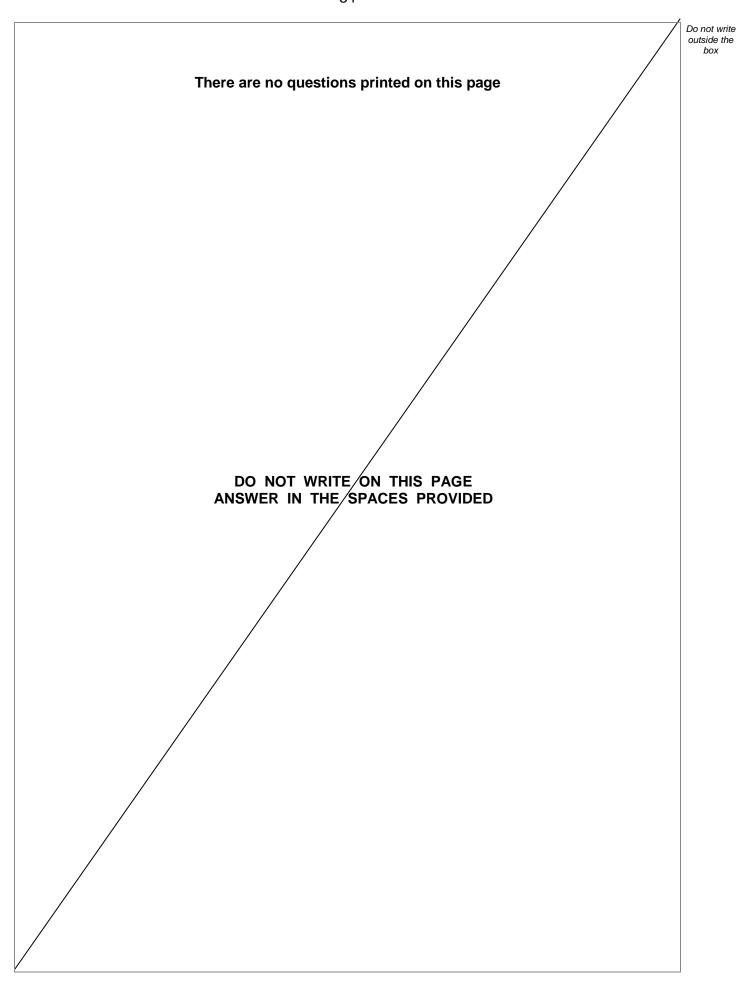


0 5 . 6	Explain how a corrie forms and changes over time.	[4 marks]	Do not write outside the box
	Extra space		



		Do not write outside the
0 5 . 7	'The growing number of visitors to glaciated upland areas in the UK can only bring advantages.'	box
	Do you agree?	
	Use an example to explain your answer. [6 marks]	
	[o marks]	
	Extra space	
		15
	END OF QUESTIONS	
	END OF QUESTIONS	

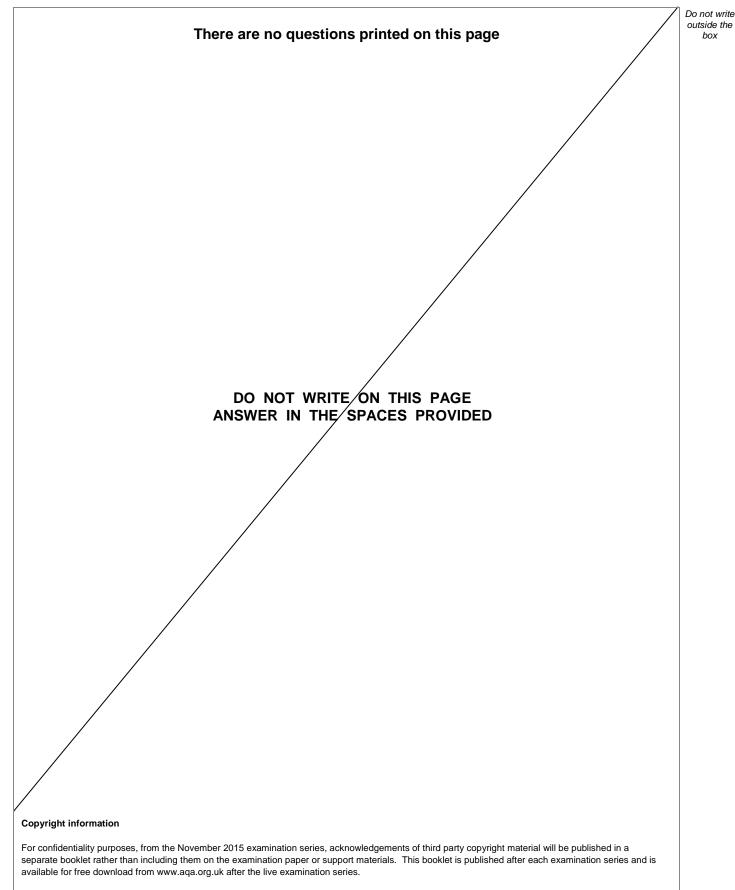






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