

## Environmental systems and societies Standard level Paper 1

Friday 5 May 2017 (afternoon)								
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1 hour								

## Instructions to candidates

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Answer all questions. Refer to the resource booklet which accompanies this question paper.
- Answers must be written within the answer boxes provided.
- A calculator is required for this paper.
- The maximum mark for this examination paper is [35 marks].

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Answer all questions. Answers must be written within the answer boxes provided.

The resource booklet provides information on Brazil. Use the resource booklet and your own studies to answer the following.

1.	List <b>two</b> biomes found in Brazil.	[1]
2.	(a) <b>Figure 3(b)</b> shows biodiversity data for the Atlantic Rainforest and Cerrado region. Identify <b>two</b> factors that may have led to these differences in biodiversity.	[2]
	(b) Identify <b>two</b> factors that make regions such as Cerrado and Atlantic Rainforest important for conservation.	[2]
3.	With reference to the species listed in <b>Figure 4</b> , identify <b>two</b> factors that may have contributed to their status given on the IUCN Red List.	[2]



•	With reference to the images in <b>Figure 4</b> , justify your choice of <b>one</b> animal as the most suitable to promote conservation.	[2]
	(b) Identify one reason why the natural increase rate, calculated in part (a), is different from the actual growth rate of the population, which was 0.63% in 2015.	[1]
		[1]
		[1]
		[1]



	Brazil is likely to change in the next 30 years.
_	dentify <b>two</b> environmental impacts of hydro-electricity generation in Brazil.
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8.	product (GDP) between 1990 and 2012.	[1]
9.	(a) Describe the relationship between harvested area and grain production as shown in <b>Figure 8</b> .	[2]
	(b) With reference to Figure 8, outline two reasons for the relationship between the area used for grain production and the quantity of grain produced.	[2]



	ures 9(a) and 9(b) provide information about the production of ethanol from sugar as ofuel.
(a)	Explain how biofuel production can be used as a strategy to control greenhouse gas emissions in Brazil.
(b)	Outline <b>one</b> limitation for using biofuels as a strategy to control greenhouse gas
	emissions.






Turn over

