

Environmental systems and societies Standard level Paper 1

Friday 5 May 2017 (afternoon)								
		Can	dida	te se	essior	nun	nber	

Instructions to candidates

1 hour

- 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].

2217-6301 © International Baccalaureate Organization 2017



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



https://xtremepape.rs/

4.	With reference to the images in Figure 4 , justify your choice of one animal as the most suitable to promote conservation.	[2]
5.	(a) Using data from Figure 5(a) , calculate the natural increase rate for Brazil in 2015.	[1]
	(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]



From the shape of the age-gender pyramid in Figure 5(b) , suggest how the population in Brazil is likely to change in the next 30 years.	
	_
Identify two environmental impacts of hydro-electricity generation in Brazil.	
Identify two environmental impacts of hydro-electricity generation in Brazil.	_
Identify two environmental impacts of hydro-electricity generation in Brazil.	
	_



9. (a) Describe the relationship between harvested area and grain production as shore Figure 8. (b) With reference to Figure 8, outline two reasons for the relationship between the used for grain production and the quantity of grain produced.	stic	[
(b) With reference to Figure 8, outline two reasons for the relationship between the second s		
(b) With reference to Figure 8, outline two reasons for the relationship between the second state of the second stat		
(b) With reference to Figure 8, outline two reasons for the relationship between the second state of the second stat		
	own in	[
	ne area	[



(a)	Explain how biofuel production can be used as a strategy to control greenhouse gas emissions in Brazil.
(b)	Outline one limitation for using biofuels as a strategy to control greenhouse gas emissions.



11.	With reference to Figure 11(a) , suggest what conclusions can be drawn regarding the sustainability of the Brazilian population over the period shown.	[2]
12.	The survey data, shown in Figures 12(a) and 12(b) , represents the values of the Brazilian people in respect of global warming, the environment and the economy.	
	With reference to the information in the resource booklet, to what extent have these values been demonstrated during the recent development of Brazil?	[6]



Turn over

