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Environmental systems and societies Standard level Paper 1

Monday 20 May 2019	(afternoon)
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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].



Ans	swer all questions. Answers must be written within the answer boxes provided.	
1.	Identify the most densely populated country in Figure 3(a).	[1]
2.	With reference to Figure 3(b) , outline two reasons for differences between the age-gender pyramids for Indonesia and Timor-Leste.	[2]
3.	With reference to the data in Figure 4(a) , calculate the percentage of the world's coral species found in the Coral Triangle.	[1]
4.	With reference to Figures 4(b) and 4(c) , suggest how fish diversity may be influenced by the habitat diversity of the Coral Triangle.	[2]



5.	With reference to Figure 4(d) , suggest the impact on the marine food web if tuna numbers were to decline.	[2]
6.	Outline one advantage for local populations within the Coral Triangle in harvesting their food from:	
	(a) the marine system	[1]
	(b) terrestrial agriculture.	[1]
7.	Explain two ways in which mangroves improve the water quality for primary producers within marine ecosystems.	[4



Turn over

-4-



Explain how the following land-based activities could have a damaging effect on marine

11.

	ecos	systems within the Coral Triangle:	
	(a)	deforestation	[2]
	(b)	agricultural activity.	[2]
12.	Sug	gest two strategies that could be used to reduce the threat to coral reefs from tourism.	[2]



13.	With reference to Figure 8(a) , outline two advantages of Locally Managed Marine Areas (LMMAs) for providing effective conservation of marine systems.	[2]
14.	Identify one way in which conservation efforts may have given rise to the decline in shark fin imports shown in Figure 8(d) .	[1]
15.	With reference to data throughout the resource booklet, to what extent would the establishment of Marine Protected Areas (MPAs) benefit marine ecosystems and human societies within the Coral Triangle?	[6]
1		





Please **do not** write on this page.

Answers written on this page will not be marked.

