

## Physical Geography. Paper 1

### Living World – question 4

	Sample	2010	2011	2012	2013	2014 Prediction
<p>The concept of an ecosystem.</p> <p>The use of a small scale ecosystem to illustrate the parts of an ecosystem and how it works, including consumers, decomposers, food chain/web, nutrient cycling and producers.</p> <p>The balance between components. The impact of changing one component on the others.</p>	<p>Describe the links between the different parts of a small-scale ecosystem, such as a hedgerow. (3)</p> <p>Describe one way in which the balance within the ecosystem may be upset. (2)</p>	<p>What is a food web? (3)</p> <p>How are nutrients recycled in a deciduous forest ecosystem. (4)</p>	<p>What is an ecosystem? (2)</p>	<p>Insert of a food web – describe how the food web shows that different parts of the ecosystem are linked to each other. (3)</p> <p>What is the likely effect of a reduction in insects? (2)</p> <p>What is the difference between a food web and a food chain?(2)</p>		<p>Small scale ecosystem case study</p> <p>Nutrient cycling</p> <p>Producers, consumers, decomposers</p>

<p>The global distribution of three ecosystems – temperate deciduous forest, tropical rainforest and hot deserts.</p> <p>The characteristics of the vegetation, climate and soils for each ecosystem= deciduous, desert, TRF.</p> <p>The ways in which the vegetation in temperate deciduous forest, tropical rainforest or hot deserts adapts to the climate and soils.</p>	<p>Describe the structure of the TRF. (4)</p> <p>Figs on insert – illustrate how the veg. of the TRF has adapted to its env. (4)</p>	<p>(Photo)Veg. in a hot desert – describe the changes. (4)</p>	<p>Describe the distribution of hot deserts. (3)</p> <p>(Photo) Describe the characteristics of vegetation in hot deserts. (4)</p> <p>Explain how vegetation adapts to the climate and soils of hot deserts. (6)</p>	<p>Explain how veg. in temp. deciduous woodland adapts to the climate and soils and is in harmony with them. (8)</p>	<p>Describe the global distrib. of the TRF ecosystem. (3)</p> <p>Describe characteristics of TRF. (3)</p> <p>Explain how TRF veg. adapts to the climate.(4)</p>	<p>Describe the global distribution of temperate deciduous forests</p> <p>Describe the characteristics of temperate deciduous forests</p> <p>Explain how in hot deserts veg. adapts to the climate.(4)</p>
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<p>road building, mineral extraction and population pressure.</p> <p>The economic, social, political and environmental <u>impacts</u> of deforestation.</p>	<p>Describe the effects of deforestation on the environment. (4)</p>		<p>Using a case study of a TRF, describe the effects of deforestation. (8)</p>			<p>Impacts of TRF deforestation (case study)</p>
<p>The sustainable management of tropical rainforest-selective logging, replanting, education, ecotourism, protection, reducing demand for tropical hardwoods and reducing debt.</p>	<p>Describe how, and explain why, ecotourism can lead to sustainable development in a TRF. (8)</p>			<p>Describe how selective logging and replanting are examples of sustainable management in TRFs. (6) Extract – an ecolodge in a TRF in Costa Rica. Explain why it is attractive to ecotourists. (4)</p>		<p>Sustainable management of TRFs</p>
<p><b>A case study of a hot desert in a rich part of the world AND one from a poorer area: (SONORAN DESERT, USA, and THAR, PAKISTAN)</b></p>					<p>Tourism in Dubai – distance on a map.(1) Suggest reasons for the locations of tourist areas (4) Use fig 8 to provide evidence of the importance of tourism to Dubai. (2)</p>	

<p>use of area for commercial farming, irrigation, mineral extraction, retirement migration and tourism (RICHER DESERT)</p> <p>and a contrasting area: hunting and gathering, farming, irrigation. (POORER DESERT)</p> <p>Management of each area to ensure sustainability and challenges faced.</p>		<p>Use a case study of a <b>desert</b> in a <u>richer</u> country, describe how people try to manage it in a sustainable way. (9)</p>			<p>Use a case study of a <b>hot desert</b> in a <u>richer</u> part of the world to discuss whether economic development is sustainable (8)</p>	<p>Poor world <b>hot desert</b> use (case study)</p>
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Note – IMPACT = the EFFECT