

Grade Nine Guides

GCSE BIOLOGY

Paper 2

ECOLOGY

EXAM

QUESTIONS

- **Exam questions per topic**

Aiming at grade 8/9



Answers in No Waffle GCSE videos :)

Topic	Question [marks]	Answer
B 7: communities	➤ Name the two types of competition [2]	
Abiotic and biotic factors & adaptations and extremophiles	➤ What is an indicator species	
levels of organisation and sampling and trophic levels	<div> ➤ Describe the four different trophic levels [4] </div> <div> ➤ Explain the two types of sampling [2]. </div> <div> ➤ Sampling required practical part a: Measuring the population size of a common species </div> <div> ➤ Sampling required practical part b: investigating the effect of a factor Investigating the effect of a factor on distribution </div> <div> ➤ Give two reasons why sampling is not accurate </div> <div> ➤ The students made the hypothesis: 'Light intensity affects the number of dandelion plants that grow in an area.' Plan an investigation to test this hypothesis. [6 marks] </div> <div> ➤ Name some ways energy is lost in food chains [2] </div> <div> ➤ Pyramids of number </div> <div> ➤ Pyramids of biomass[energy transferred along food chains trophic levels] </div>	

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Carbon and water cycle	<ul style="list-style-type: none"> ➤ What are four parts of the carbon cycle [2] 	
decomposition	<ul style="list-style-type: none"> ➤ what are decomposers and why are they needed [3] ➤ What are three conditions decomposers need [3] ➤ What do biogas generators do ➤ What is the function of the paddles ➤ How does an air pump help fungus grow? ➤ how is the temperature kept constant [2] ➤ why does the pH remain constant in the bioreactor ➤ Milk decay required practical [6] ➤ Explain the production of yoghurt [3] • Describe two real life applications of decay today [6] ➤ Describe:[6] ➤ how microorganisms in the layers of soil help to recycle chemicals in the dead plants ➤ And how the chemicals are used again by living plants 	
Biodiversity and waste management	<ul style="list-style-type: none"> ➤ what is biodiversity and why is it important [2] ➤ Define bioaccumulation ➤ Define pollutant 	
peat bogs	<ul style="list-style-type: none"> ➤ describe the formation of Pete 	

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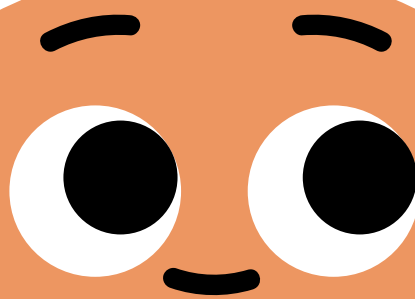
and land use / pollution	<p>[6]</p> <ul style="list-style-type: none"> ➤ Where does acid rain come from [2] ➤ Effects of acid rain [2] 	
deforestation	<p>[3]</p> <ul style="list-style-type: none"> ➤ Describe three disadvantages of deforestation 	
Factors affecting food security	<p>[3]</p> <ul style="list-style-type: none"> ➤ Name some factors affecting food security ➤ Explain how making dog food from insects could improve human food security in the future. <p>[4 marks]</p>	
farming techniques and sustainable fisheries	<p>[3]</p> <ul style="list-style-type: none"> ➤ Name 3 strategies to increase crop yields ➤ Describe why more land is being used for farming and how an increase in farming has decreased biodiversity <p>[6]</p> <ul style="list-style-type: none"> ➤ Why are some people concerned with GM rice? ➤ What are monocultures [1] <p>[4]</p> <ul style="list-style-type: none"> ➤ Open versus closed fish farms advantages and disadvantages of each <p>[5]</p> <ul style="list-style-type: none"> ➤ Describe And explain the steps of eutrophication <p>[3]</p> <ul style="list-style-type: none"> ➤ Describe three ways fish farms can cause harm to the local ecosystem And one way to reduce this ➤ A large amount of untreated sewage entered 	

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	<p>the river. Many fish died. Untreated sewage contains organic matter and bacteria. Explain why many fish died</p> <p>[5]</p>	
biotechnology	<p>➤ Explain what quorn is [3]</p>	

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