

Revision Sheet

IGCSE Biology · Unit 20 Human influences on ecosystems

12 vocabulary items · 24 marks of exam questions (6 questions)

Part 1 · Vocabulary review answer key. Section A wants the exact English spelling.

Question	Answer	Marks
1	livestock	1
2	monoculture	1
3	pollution	1
4	deforestation	1
5	extinction	1
6	sewage	1
7	eutrophication	1
8	plastics	1
9	methane	1
10	endangered	1
11	captive breeding	1
12	seed banks	1

Multiple Choice Answers

Q13: A

Multiple Choice Answers

Q14: C

Q15: C

Multiple Choice Answers

Q16: A

17(a)	<i>any one from:</i> rice fields / wetlands ; cattle / livestock ; AVP ; e.g., melting permafrost / termites / wildfires / (burning) fossil fuels / natural gas / fracking
17(b)	increase ; 1600 / 1720 ; 1100 ;
17(c)(i)	combustion ;
17(c)(ii)	<i>any two from:</i> <u>enhanced</u> greenhouse effect ; climate change / global warming / global heating ; large scale changes in weather patterns / extreme weather events ; sea level rising / ice caps melting ; reduction in biodiversity / extinction ;
17(c)(iii)	photosynthesis / AVP ;
17(d)(i)	<u>anaerobic</u> respiration / fermentation ;
17(d)(ii)	<i>any three from:</i> reduces nutrient level in soil / requires more use of fertilisers ; encourages pests / requires more use of pesticides ; (leads to) increased pesticide resistance ; requires more water / irrigation ; contamination of water / increased run-off / pollution ; increases soil erosion ; lack of biodiversity ; loss of habitats / deforestation ; less land available for food crops ; AVP ; e.g., requires more fossil fuel energy

18(a)	<i>Widdringtonia</i> ;
18(b)	<p><i>any three from:</i></p> <ol style="list-style-type: none"> 1 no roots, to absorb water / bind soil / hold soil together ; 2 <i>idea of:</i> no canopy / AW, to protect (soil) from rainfall ; 3 increase in run off / AW ; 4 ref. to soil erosion ; 5 loss of, mineral content / ions / nutrients / AW, in the soil ; 6 flooding (in the valleys) ; 7 landslides / mudslides ; 8 ref. to visual pollution / dead tree stumps / bare ground / AW ; 9 loss of biodiversity / disruption of food chains / disruption of food webs / (species) extinction ; 10 AVP ;
18(c)	<p>food source(s) ; nesting / breeding, sites ; shelter / shade / protection from predators ; leaf litter for decomposers ; ref. to nutrient cycling ; (named) resources for humans ; AVP ;</p>
18(d)	<p><i>any two from:</i> ref. to genetic, diversity / variation ;</p> <p><i>importance of genetic diversity:</i> plants (grown from seeds) may be adapted to changes in the environment ; plants (grown from seeds) may be resistant to, diseases / pests ; (seeds collected) may not, be viable / germinate ; (seeds collected) may, be diseased / have parasites / AW ; (seeds collected) may have harmful, alleles / mutations ; AVP ; e.g., increase in fitness</p>