Land use (deforestation, peat bogs)

Q1. (2018)

04.8	there was a high(er) level of pollution (in the pond in 2016)	allow converse for 2014	1	AO3 4.7.2.1
	because there are no / fewer mayfly nymphs **or** because there are fewer freshwater shrimps	data must be comparative	1	

Q2. (2018)

04.9	any **two** from: • famine / food insecurity • water shortage • landfill sites filling up • acid rain • deforestation / habitat destruction • extinction of species **or** reducing biodiversity • natural resources running out	ignore global warming and any water pollution references such as sewage or eutrophication	2	AO3 4.7.3.2 4.7.3.3 4.7.3.4 4.7.3.5 4.7.3.1

Q3. (2019)

03.5	any **one** from: • (new) disease • (new) herbivore • climate change **or** global warming **or** ice age • volcano / earthquake / tsunami / meteor • lack of pollinators • (new) competitor	ignore (new) predator allow drought / flooding allow plant collectors	1	AO1 4.6.3.3

Q4. (2019)

03.5	any **one** from: • (new) disease • (new) herbivore • climate change **or** global warming **or** ice age • volcano / earthquake / tsunami / meteor • lack of pollinators • (new) competitor	ignore (new) predator allow drought / flooding allow plant collectors	1	AO1 4.6.3.3

Q5. (2020)

A)

05.2	any **one** from: • repeat in each area • do more quadrats (to take more readings) • count the number of individuals of each species • remove leaf litter and search in tray • do a timed search of the leaf litter • do on the same day or time of day		1	AO3 4.7.2.1 RPA 7

B)

05.3	the trees provide habitat(s) or shelter	allow described	1	AO2 4.7.2.1 RPA 7
	so (more) food / camouflage / shade available	allow places to hide or cooler or wetter environment	1	

C)

05.4	ring drawn around 20		1	AO3 4.7.2.1 RPA 7

D)

05.5	(removing trees) decreases the number of invertebrate species		1	AO3 4.7.2.1 RPA 7

E)

05.6	(less trees means) more light		1	AO2 4.7.1.2
	(and) more water / minerals in soil		1	4.4.1.1 4.4.1.3
	(so) reduced competition		1	
	OR			
	(less trees means) more light (1)			
	(so) (more) photosynthesis (1)			
	(so) (more) glucose (for growth) (1)			

Q6. (2021)

05.1	any **one** from: • less / decreased / reduced photosynthesis • (more) burning / combustion (of wood) • decomposition / decay (of wood)	allow burning / combustion (of fossil fuel in machinery)	1	AO1 4.7.3.4

Q7. (2021)

07.3	compost	allow improving soil (texture / drainage / quality) ignore farming unqualified ignore as fertiliser	1	AO1 4.7.3.3
	burning **or** as a fuel		1	

Q8. (2023)

A)

01.1	to produce garden compost		1	AO1 4.7.3.3

B)

01.5	any **one** from: • climate change • global warming	allow it is getting warmer	1	AO2 4.7.3.3 4.7.3.5

C)

01.6	building factories		1	AO1 4.7.3.3
	quarrying rocks		1	