

	estion mber	Answer	Notes	Marks
1 (a)		1. housi / building / construction / eq;	ignore for logs / wood / employment	
		 agriculture / farming / farming cattle / palm oil plantations / eq; 		
		3. tr sport / roads / railways / eq;		
		4. king furniture / making paper;		
		5. r fuel / cooking / charcoal / to burn / eq;		2
(b	o) (i)	1. less oxygen / more carbon dioxide / eq;		
		2. (less) photosynthesis;		
		3. re burning;		
				2
	(ii)	 il erosion / less roots to hold soil in place / loose soil; 		
		2. leaching / loss o minerals / loss of nutrients / loss of fertility / eq;		
				2



(c)	1. laws to protect / prevent / limit deforestation / make deforestation illegal / eq;	
	2. replant / replace each tree felled / plant more trees / use sustainable wood sources / eq;	2

Total 8 marks



Question number	Answer	Notes	Marks
2 (a)	 lower production / fewer fruit / less growth / eq; (fewer) chloroplasts / less chlorophyll; (less) photosynthesis; (less) carbohydrate / glucose / starch; 		3
(b) (i) (ii)	 variation; mutation; rare / random: survive / not killed; reproduce / mates; pass on <u>gene</u> / <u>allele</u> / eq; inside leaf / not reach all parts / eq; 	 4. Ignore resist 6. Ignore characteristic 	4
(c)	biological;		1
(d)	 no sperm / less reproduction / less breeding / eq; fewer eggs/females fertilised / fewer larvae; s rile male compete for resources / mates; 		2



Question number		Answer	Notes	Marks
(e)	С	plus pheromone/smell and minus pheromone/smell / traps in field / no traps / eq;		6
	0	same species of insect/males (trapped) / same species/size of crop / eq;		
	R	several traps / repeat / many fields;		
	M1	count number trapped / measure damage / measure yield / eq;		
	M2	time period <u>stated</u> ;		
	S1 and S2	same temperature / light / water / time of year / location/size of field / number of plants / size of trap / eq;;		

Total 17 marks



	Question Answer		Notes	Marks		
3 (a)	(i)	removal/loss/cu	tting down of trees	s/ forest / eq;		1
	(ii)	idea of more CO (less) photosynt idea of less O ₂ /	hesis;			3
(b)		Gas	Source (cattle farming)	Effect on the environment greenhouse		5 max
				effect / global warming / eq;	Allow increase in temperature	
		(water vapour)	(combustion)	se effect / global warming / eq;	Ignore rain	
		sulphur dioxide / nitrogen oxides;	(burning fossil fuels)	(causes acid rain)	Ignore carbon dioxide	
		carbon monoxide;	(incomplete combustion)	(affects transport of oxygen in blood)		
		(CFC)	(refrigerators and air conditioning units)	affect ozone layer / greenhouse effect / global warming / eq;		
For	nore h	elp please visit o	ur website www.ex	ampaperspractice	.co.uk	Total 9 marks



Question number			Answer	Notes	Marks
4	(a)	(i)	burning fossil fuels / biomass / plants / wood or factories / industry / power stations or exhaust fumes / car/petrol/diesel engines or fertiliser / denitrification / decomposition of manure / sewage treatment;		Max 1
		(ii)	water <u>vapour</u> / CFCs / Ozone ;		1



(b)(i)	94.3 ÷ 590.3 = 16.0 / 15.97;; ignore negative sign	allow one mark for 15.975 / 15.9749 / 15.97493 / 15.974928	2
		allow one mark for 94.3 or ÷ 590.3 in working (15.9 Not correct but look for working mark)	
(ii)	 planting of trees / less deforestation / eq; 		
	2. less burning of fossil fuels / eq;		
	 fewer cars / public transport / more efficient cars / hybrid cars / electric cars / cycling / walk more / eq; 	 ignore catalytic converters / carbon neutral 	
	4. legislation;	4. eg congestion	Max 3
	 renewable energy / wind farms / wave energy / solar energy / low power lighting / nuclear fuels / eq; 	charge 5. ignore ess electricity / less energy	



 decreased by 2.5 (million tonnes) / decrease is more than half / 2.1 is less than half / decreased from 4.6 to 2.1 / eq; 		
 large decrease between 1990 and 2005 / eq; 		Max 2
 small decrease between 2005 and 2010 / eq; 		
	 decrease is more than half / 2.1 is less than half / decreased from 4.6 to 2.1 / eq; 2. large decrease between 1990 and 2005 / eq; 3. small decrease between 2005 and 	 decrease is more than half / 2.1 is less than half / decreased from 4.6 to 2.1 / eq; 2. large decrease between 1990 and 2005 / eq; 3. small decrease between 2005 and



Question number	Answer	Notes	Marks
(c)	 reduce <u>greenhouse effect</u> / less heat reflected / less heat re-radiated / less heat trapped; less global warming / less temperature rise; less ice caps melt / rise in sea level / flooding; less abitat destruction / less coral destruction / less coral destruction / eq; less eath / extinction / affect food chain; less migration / change in distribution; less climate change / 	4. ignore loss of home	Max 5
	less extreme weather / less desertification / drought / soil erosion / eq;		

Total 14 mark