Question number	Answer	Marks
1 (a)	less surface; fewer / no stomata; (less) transpiration / evaporation / diffusion;	Max 2
(b)	obtain water; more area / eq; water at surface / before water evaporates / before water seeps into soil / eq; allow rain / dew	Max 2
(c)	less chance of being eaten/protection from animals /eq; allow if predator maintain still air / eq;	Max 1

Total 5 Marks

Question number		Answer	Marks
2	C O R M1 dioxide /	vary pH / acid + alkali / eq; same species / mass / number / concentration / amount of yeast / eq; repeat each pH / eq; mass / number / bubbles / carbon alcohol / eq;	Max 6
	M2 S1 and S2	time period stated; same temp / volume of water / same nutrients / conc. of nutrients / oxygen / eq;; Ignore light	

Total 6 Marks

Question number	Answer	Notes	Marks
3 (a) (i)	1. (food web) order correct;	plant, hare, fox, cats and eagles need to be in correct order	
	2. all arrows correct;	allow order only if in pyramid	2
(ii)	herbivore / primary consumer;		1
(b) (i)	young heather;		1
(ii)	 more food / eq; more nutritious food / eq; easier to digest / softer / less spikes / eq; fewer other animals / competition from other herbivores; camouflage / fewer predators / protection from predators / shelter from predators / hide in long grass; 	2. ignore better quality / taste4. ignore competition alone / intraspecific	
() (1)			3
(c)(i)	32;;	allow one for 224 ÷ 700	
(ii)	bilberry;		1

(d)	1. placed at random;	ignore repeat	
	2. same sized quadrat		
			1

Total 11 marks

Question number	Answer	Notes	Marks
4 (a) (i)	deer;		1
(ii)	python;		1
(b) (i)	 hear/listen to prey/predators / eq; heat loss; 	hear sound = 0	1
(ii)	camouflage / hide from prey/predators / eq;	ignore to keep warm	1
(iii)	see prey/predators/further / appear bigger / reach branches / climb trees / eq;	see alone = 0 ignore ideas about faster movement	
			1
(c)	 idea of more carbon dioxide + less oxygen; (less) photosynthesis; 	ignore carbon dioxide is not changed into oxygen	2

(Total for Question = 7 marks)