Question	Answer	Additional guidance	Mark
Number			
2(a)(i)		Example of calculation	
	• 9477	Gross productivity – net productivity 14092 - 4615	
			(1)

Question Number	Answer	Additional guidance	Mark
2(a)(ii)		Example of calculation	
		(464 ÷ 4615) x 100 =	
	 calculation of energy fixed as biomass by secondary consumers as a percentage of the energy fixed by primary consumers 	10.1 (same number of decimal places as other values in table)	
			(1)

Question	Answer	Mark
Number		
2(a)(iii)	The only correct answer is A - 1.2%	
	B is incorrect because 12% has the decimal point in the incorrect place	
	C is incorrect because 36.6% is NPP divided by GPP	
	D is incorrect because 55.8% is (NPP of producers-energy intake of primary consumers) divided by NPP	(1)

Question Number	Answer	Additional guidance	Mark
2(b)	An explanation that makes reference to three of the following	ALLOW energy instead of light	
	 not all of the light falls on the { leaves / plants / producers } (1) 	ALLOW some of the light falls on { bark/parts of the plant that do not photosynthesise}	
	some of the light is reflected (from the surface of the leaf) (1)	ALLOW chlorophyll / photosystem	
	 some of the light misses the chloroplasts (and passes through leaf) (1) 		
	 some of the light is { the wrong wavelength / not absorbed by the chlorophyll } (1) 	ALLOW description of not all light wavelengths being absorbed	(3)