

Question number	Answer	Notes	Marks
6 (a)	A nitrogen fixation / nitrogen fixing; B decomposition / decomposing / decay; C <u>nitrification</u> / <u>nitrifying</u>; D <u>denitrification</u> / <u>denitrifying</u>;	No mark if list given A. allow nitrogen fixing bacteria B. ignore decomposers / rotting / breakdown C. allow nitrifying bacteria D. allow denitrifying bacteria	4
(b)	1. bacteria; 2. fungi;	ignore nitrogen fixing / nitrifying bacteria / denitrifying bacteria / mushroom / toadstool / protists / detritivores / worms	2
(c)	1. absorption by roots / root hair cell; 2. active transport / active uptake; 3. (make) amino acids / (plant) protein; 4. <u>assimilation</u> / <u>assimilate</u>; ONCE 5. eaten / ingested by animal / herbivore; 6. <u>digestion</u> / <u>digests</u> / <u>digested</u> / <u>eq</u>; 7. protease / named protease;	1. ignore root nodules 7. ignore enzyme	4

Question number	Answer	Notes	Marks
6 (d)	1. cheaper / readily available / less transport needed / renewable / sustainable / recycles / eq; 2. less <u>eutrophication</u> / leaching / run off / <u>pollution</u> / slow release of ions / less soluble / eq; 3. improves soil structure / holds water / stops erosion / eq;	allow converse ignore less harm to environment / damage to wildlife / more natural / idea that chemicals harm humans	2

(Total for Question = 12 marks)

Question number	Answer	Notes	Marks
2(a) (i)	A combustion / burning / eq; B respiration; C photosynthesis; D death / decay / decomposition / rotting / eq; E respiration;		5
(ii)	C;		1
(b)	1. global warming / earth warms / atmosphere heats up / temperature rises / traps heat / eq; 2. ice caps melt / eq; 3. flooding / rise in sea level; 4. climate change / extreme weather / hurricanes / drought / eq; 5. <u>habitat</u> destruction / desertification / eq; 6. extinction / disruption of food chains / loss of species; 7. migration / distribution of organisms / distribution of pests / spread of disease / affects plant growth;	Mp6 ignore death of organisms	4 max

(c)	1. burn less fossil fuels / drive less cars / use hybrid cars / use public transport / cycling / low energy light bulbs / eq; 2. plant more trees / reduce deforestation; 3. use renewable energy / wind / solar / wave / nuclear / eq; 4. reduce cattle farming / fewer paddy fields / less aerosols / eq;	Ignore catalytic converters	2 max

Total 12 marks