

Multiple Choice Answers

Q20: D

Multiple Choice Answers

Q14: B

Multiple Choice Answers

Q19: D

3(a)(i)	A denitrification ; B nitrification ;
3(a)(ii)	<i>any two from:</i> lightning ; bacteria ; AVP ;
3(a)(iii)	ammonia / ammonium (ions) ;
3(a)(iv)	liver ;
3(a)(v)	removal of nitrogen containing part (of amino acids / protein) ; urea is formed ;
3(b)	greenhouse effect ; rice ; carbon dioxide ; photosynthesis ; burning / combustion ;
3(c)	<i>any six from:</i> 1 untreated sewage / fertiliser / nutrients ; 2 increased availability of nitrates / ions / AW ; 3 causing algal bloom / algae reproduction ; 4 algae reduce (penetration of) sunlight (in the water) / AW ; 5 (so rooted) plants unable to photosynthesise ; 6 so plants die ; 7 bacteria, decompose / feed, on dead, plants or algae ; 8 so bacterial populations increase ; 9 bacteria respire aerobically ; 10 bacteria use up the oxygen in the water ; 11 organisms / fish , die / suffocate / migrate, due to lack of oxygen ;

6(a)	20 ; 90 ; muscles / blood ; debt ; liver ; oxygen ; aerobic ;
6(b)(i)	liver ;
6(b)(ii)	kidney ;
6(c)	$C_6H_{12}O_6 \rightarrow$; $2C_2H_5OH + 2CO_2$;
6(d)	bread / AVP ;