

Multiple Choice Answers

Q2: C

Multiple Choice Answers

Q1: A

Q2: B

Multiple Choice Answers

Q2: B

1(a)	go to 2	
	go to 4	
	go to 3	
	<i>Vibrio cholerae</i>	D
	<i>Helicobacter pylori</i>	B
	<i>Salmonella typhi</i>	E
	<i>Treponema pallidum</i>	C
	go to 5	
	go to 6	
	<i>Staphylococcus aureus</i>	A
	<i>Streptobacillus moniliformis</i>	G
	<i>Streptococcus pyogenes</i>	F
	;;;	
1(b)(i)	<i>radius:</i> 0.25 μm ; <i>volume:</i> 0.39 μm^3 ;;;	
1(b)(ii)	prokaryote ;	
1(c)(i)	J protein coat ; K genetic material ;	
1(c)(ii)	<i>any two from:</i> cell wall ; cell membrane ; circular / loop of, DNA ; plasmid ; cytoplasm ; ribosome ; AVP ;;	

1(a)	genus AND species ;
1(b)	fungus / fungi ;
1(c)(i)	<i>any two from:</i> 1 chloroplast ; 2 cell wall ; 3 (large permanent) vacuole ; 4 AVP ;
1(c)(ii)	<i>any four from:</i> <i>species X</i> 1 fern ; 2 spores ; 3 fronds ; <i>species Y</i> 4 monocotyledon ; 5 narrow / long / AW, leaves ; 6 parallel veins ;
1(c)(iii)	<i>any two from:</i> 1 use, base / amino acid / nucleotide / gene, <u>sequences</u> OR <u>sequence</u> , DNA / RNA / AW ; 2 (crops with) recent ancestors / closely related species, will have more, sequences / genes / alleles in common / will have similar, sequences / genes / alleles ; 3 AVP ;

Multiple Choice Answers

Q2: B

5(a)(i)	A - hair / external ears ; B – wings / feathers ;
5(a)(ii)	apes and rodents ;
5(a)(iii)	<i>most similar</i> – birds ; <i>least similar</i> – sharks ;
5(b)	<i>any four from:</i> 1 <i>ref. to <u>two</u></i> strands / chains ; 2 <u>double</u> helix ; 3 <i>ref. to <u>four</u></i> bases / A, T, C, G ; 4 A pairs with T and C pairs with G ; 5 <i>ref. to <u>bonds</u></i> between bases ;

5(c)	<i>any three from:</i> (base sequences of DNA / mRNA) determine sequence of amino acids ; amino acids form proteins / protein synthesis / production of proteins ; named example of protein ; <i>ref. to</i> sequence of amino acids determining protein shape ;
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Multiple Choice Answers

Q1: C