

Multiple Choice Answers

Q30: D

Q31: A

6(a)	nucleus ;
6(b)	<i>any one from:</i> enzymes ; membrane carriers ; receptors for neurotransmitters ; AVP ;
6(c)	<i>any three from:</i> (mRNA) is a copy of the gene / DNA / base sequence ; gene / DNA, remains in the nucleus ; (mRNA takes instructions) to cytoplasm / ribosome ; mRNA, passes through / attaches to / 'read by', ribosome ; base sequence determines sequence of amino acids (in the protein) ;

Multiple Choice Answers

Q4: C

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> strands / chains ;</i> 2 <i><u>double</u> helix ;</i> 3 <i>ref. to <u>four</u> bases / A, T, C, G ;</i> 4 <i>A pairs with T and C pairs with G ;</i> 5 <i>ref. to <u>bonds</u> between bases ;</i>
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 sequence of amino acids determining protein shape ;</i>

Multiple Choice Answers

Q29: C