

Question Number	Answer	Additional guidance	Mark
5(a)(i)	<ul style="list-style-type: none"> an alternative form of a gene 	accept version of a gene	(1)

Question Number	Answer	Mark
5(a)(ii)	<p>The only correct answer is A ccddee</p> <p><i>B is not correct because all alleles need to be recessive</i></p> <p><i>C is not correct because all alleles need to be recessive</i></p> <p><i>D is not correct because all alleles need to be recessive</i></p>	(1)

Question Number	Answer	Additional guidance	Mark
5(a)(iii)	<p>A description that includes the following points:</p> <ul style="list-style-type: none"> polypeptide chain enters the rER (1) {secondary/ tertiary} structure formed (1) polypeptide is packaged into vesicles (by rER) / {(rER) vesicles fuse with / protein enters} Golgi (1) carbohydrate added (to protein in Golgi) (1) (glyco)protein is packaged into vesicles (by Golgi) and transported to cell surface membrane (1) 	<p>accept 3D structure formed / bonds form between different R groups</p> <p>accept transported in vesicle to the Golgi</p> <p>accept glycosylation occurs (in the Golgi) ignore modification occurs in Golgi without reference to carbohydrate being added</p> <p>accept (glyco)protein is packaged into vesicles (by Golgi) and vesicle fuses with cell surface membrane</p>	(5)