

Question Number	Answer	Additional guidance	Mark
7(a)(i)	<p>The only correct answer is C - R</p> <p><i>A is not correct because ribosomes are not produced in cytoplasm</i></p> <p><i>B is not correct because ribosomes are not produced in endoplasmic reticulum</i></p> <p><i>D is not correct because ribosomes are not produced in the nuclear membrane</i></p>		(1)

Question Number	Answer	Additional guidance	Mark
7(a)(ii)	<p>An answer that includes two of the following points:</p> <ul style="list-style-type: none"> viewed from a different angle / one was transverse and one is longitudinal (1) when the cell was {sliced / cut} (1) different sizes due to different stages of {growth / development} (1) 	Accept when the mitochondria / structure {T / U} was {sliced / cut}	(2)

Question Number	Answer	Additional guidance	Mark
7(a)(iii)	<p>A calculation showing the following steps:</p> <ul style="list-style-type: none"> conversion of units (1) calculation of magnification (1) 	<p>Example of calculation:</p> <p>$52 \times 1000 = 52\,000$</p> <p>$(52\,000 \div 3.0) = (\times) 17300 / 17333 / 17333.3$</p> <p>Correct answer with no working shown scores full marks Incorrect unit loses one mark</p>	(2)

Question Number	Answer	Additional guidance	Mark
7(b)	<p>A description that includes the following points:</p> <ul style="list-style-type: none"> rER packages insulin (protein) in vesicle (1) vesicle fuses to become part of Golgi apparatus and insulin (protein) {enters Golgi apparatus / is modified} (1) Golgi packages insulin (protein) in (secretory) vesicle / vesicle containing insulin (protein) pinched off Golgi (1) (secretory) vesicles fuse with the cell (surface) membrane (1) the insulin (protein) exits (beta cell) via exocytosis (1) 		(5)