

Question Number	Answer	Additional Guidance	Mark
<b>2(a)</b>	<ol style="list-style-type: none"> <li><b>controls</b> the growth of the pollen tube ;</li> <li>idea of <b>controlling</b> the production of {enzymes / protein} ;</li> <li>how these are involved in the growth of the pollen tube ;</li> </ol>	2. ACCEPT codes for enzymes 2. NOT produces / secretes enzymes  3.e.g. they form a pathway for pollen tube /they digest the style / they produce the pollen tube	(2)

Question Number	Answer	Additional Guidance	Mark
<b>2(b)</b>	B both are haploid	A is incorrect because both nuclei are haploid C is incorrect because both nuclei are haploid D is incorrect because both nuclei are haploid	(1)

Question Number	Answer	Additional Guidance	Mark
<b>2(c)(i)</b>	<ol style="list-style-type: none"> <li>{polymer / polysaccharide} of (α) glucose ;</li> <li>held together by <b>glycosidic</b> bonds / eq ;</li> <li>reference to amylose <b>and</b> amylopectin ;</li> </ol>	ACCEPT phonetic spellings 1. ACCEPT <b>starch</b> is made up of <b>many / lots</b> of (α) glucose 2. ACCEPT 1,4- and/or 1,6- if ref to specific glycosidic bonds is stated 2.ACCEPT starch / amylose / amylopectin contains glycosidic bonds 3. NOT amylase (penalise once)	(2)

Question Number	Answer	Additional Guidance	Mark
<b>2(c)(ii)</b>	<ol style="list-style-type: none"> <li>starch is insoluble ;</li> <li>glucose molecules can move into the embryo (plant) ;</li> <li>glucose can be used {in respiration / as a source of energy / eq} ;</li> </ol>	2.ACCEPT starch cannot move into embryo (plant)  3. must be context of glucose	(2)