

Question Number	Answer	Additional guidance	Mark
4(a)(i)	<p>A description that makes reference to the following points:</p> <ul style="list-style-type: none"> the germination of the seeds remains {high/ constant} for an initial period of time (1) (after this) the germination of the seeds (rapidly) {decreases / reduces} with increased time in storage (1) 		(2)

Question Number	Answer	Additional guidance	Mark
4(a)(ii)	<p>An explanation that makes reference to four of the following points:</p> <ul style="list-style-type: none"> (many different plants result in) increased genetic diversity of the seeds stored (1) because more (seeds from different) {individuals/ plants} increases the probability of having {more alleles / different genotypes / heterozygotes} (1) adult plants allow {pollination / sexual reproduction} to occur (1) to produce new seeds (for storage) (1) to replace those seeds stored for a long time (1) 	<p>Accept reduces chance of seeds from (mainly) {homozygous recessive / diseased} plants</p> <p>Accept to produce seeds which are genetically different (from parent plants)</p> <p>Accept to increase the {viability of stored seeds / percentage of seeds that will germinate}</p>	(4)

Question Number	Answer	Additional guidance	Mark
4(b)(i)	<p>A calculation in which:</p> <ul style="list-style-type: none"> mass of cutlery per month calculated (1) mass of cutlery per year calculated to two significant figures with unit (1) 	<p><u>Example of calculation</u></p> <p>$(130000 \div 100) \times 60 = 78000 \text{ (kg)}$</p> <p>$(78000 \times 12) = 940000 \text{ kg} / 9.4 \times 10^5 \text{ kg}$</p> <p>Correct answer with no working scores full marks</p>	(2)

Question Number	Answer	Additional guidance	Mark
4(b)(ii)	<p>An answer that includes the following points:</p> <ul style="list-style-type: none"> more (cutlery) can (constantly) be made from avocado seeds (1) as avocados are {continually being grown / can be grown by future generations} (1) 	<p>Accept carbon neutral / lower carbon emissions (than oil-based plastic production) / biodegradable</p> <p>Accept as avocado seeds are waste products</p>	(2)