

Question Number	Answer	Additional guidance	Mark
5(a)	<p>An answer that makes reference to the following:</p> <ul style="list-style-type: none"> named nitrogen containing compound synthesised (1) credit role of this compound in the plant (1) 	<p>e.g. amino acids / proteins / nucleic acids / ATP / NADP</p> <p>e.g. {Proteins/ (peptide) hormones} are needed for {growth / repair} / DNA is needed for protein synthesis</p> <p>Ignore amino acids needed to form proteins</p> <p>Ignore nucleotides needed to form DNA/RNA</p>	(2)

Question Number	Answer	Additional guidance	Mark
5(b)	<p>A description that makes reference to two of the following:</p> <ul style="list-style-type: none"> modification of protein (into enzyme) (1) enzyme(s) packaged into (secretory) vesicles (1) enzyme(s) leave cell by exocytosis (1) 	<p>Accept vesicles fuse with cell (surface) membrane and release enzyme(s) outside cell</p>	(2)

Question Number	Answer	Additional guidance	Mark
5(c)	<pre> graph TD A[Tested on human cells / animals] --> B[Phase 1 Tested on healthy volunteers] B --> C[Results reviewed (by independent scientists)] C --> D[Phase 2 Tested on small group of volunteer patients with the disease / HIV / cancer(s)] D --> E[Phase 3 Tested on 1000 to 3000 volunteer patients with the disease] </pre>	<p>Accept identification of side effects</p> <p>Ignore identification of appropriate dosage</p> <p>Accept tested on 100-500 volunteer patients with {disease / HIV/ cancer}</p> <p>Ignore patients unqualified</p>	(3)