

Question Number	Answer	Additional guidance	Mark
3(a)	<p>C - C D B E A</p> <p>The only correct answer is C</p> <p><i>A is not correct because the correct order is C D B E A</i></p> <p><i>B is not correct because the correct order is C D B E A</i></p> <p><i>D is not correct because the correct order is C D B E A</i></p>		(1)

Question Number	Answer	Additional guidance	Mark
3(b)(i)	<p>An explanation that includes four of the following points:</p> <ul style="list-style-type: none"> • DNA content remains constant during {G1 / G2/ mitosis} (1) • the DNA content doubles (1) • due to {DNA / chromosome} replication / S phase / replication (1) • the cell divides / cytokinesis (after 15 hours) (1) • (therefore) it will produce (two) diploid (daughter) cells (1) 	<p>ACCEPT DNA content stays at 2 during G1 / DNA content stays at 4 during {G2 / mitosis}</p> <p>ACCEPT DNA content increases {to 4 / by 2}</p> <p>ignore interphase</p> <p>ignore telophase</p> <p>ACCEPT (therefore) it will produce (two) genetically identical (daughter) cells</p>	(4)

Question Number	Answer	Additional guidance	Mark
3(b)(ii)	<p>An answer that includes the following points:</p> <ul style="list-style-type: none"> • similar shape graph as mitosis (1) • with a further division line to reduce DNA content to {haploid / 1 a.u.} (1) 	<p><u>Example of graph</u></p>	(2)