

Question Number	Answer	Additional Comments	Mark
7 (a)	X – metaphase ; Y – anaphase ;		(2)

Question Number	Answer	Additional Comments	Mark
7 (b)	<ol style="list-style-type: none"> 1. { chromatin / DNA } condenses / eq ; 2. chromosomes { condense /become visible /eq } ; 3. idea of nuclear { membrane /envelope } breaking down ; 4. nucleolus {disappears /eq} ; 5. reference to centrioles moving to poles or opposite ends of cell ; 6. reference to formation of spindle (fibres) ; 	<ol style="list-style-type: none"> 1. ACCEPT coiling of DNA, not supercoiling 2. ACCEPT shorten or thicken 5. NB – part (b) does not specify plant cells, therefore reference to centrioles is acceptable 	(4)

Question Number	Answer	Additional Comments	Mark
7 (c)	<ol style="list-style-type: none"> 1. interphase; 2. chromosomes not visible / nucleus is visible / eq ; 	<ol style="list-style-type: none"> 1.ACCEPT/ G1 / G2 / S 2. Must be a detail seen in the photograph ACCEPT converse e.g. not mitosis as chromosomes not visible 	(2)