

Question Number	Answer	Mark
4 (a)	1. organ ; 2. (organ) system ;	(2)

Question Number	Answer	Mark
4 (b)(i)	1. ref to DNA replication ; 2. so that it can halve / eq ; 3. idea that {new cells will have same amount as original /original (DNA) content restored} ; 4. during cytokinesis / eq ;	maximum (2)

Question Number	Answer	Mark
4 (b)(ii)	3.5 to 3.75 (hours) ;	(1)

Question Number	Answer	Mark
4 (b)(iii)	1. $(75 \div 270) \times 18$; 2. answer correct 5 (hours) ;	(2)

Question Number	Answer	Mark
4 *(c) QWC	<p>(QWC - Spelling of technical terms (<i>shown in italics</i>) must be correct and the answer must be organised in a logical sequence)</p> <ol style="list-style-type: none"> 1. <i>chromosomes / chromatids</i> {condense / become visible / eq} ; 2. {<i>nuclear</i> envelope / eq } {breaks down / eq} ; 3. {<i>nucleolus</i> / eq } {breaks down / eq} ; 4. <i>spindle</i> (fibre) begins to form / eq ; 5. <i>centrioles</i> migrate to opposite poles / eq ; 	maximum (3)