Question Number	Answer	Additional Guidance	Mark
6(a)(i)	as the distance from the root cap increases the **mitotic index** decreases / eq ;	ACCEPT converse	(1)

Question Number	Answer	Additional Guidance	Mark
6(a)(ii)	1. (total number of cells =) 3 + 91 / 94 ; 2. (mitotic index =) 3.2 / 3.19 ; 3. (distance from root cap =) 1 /1.0 /1.00(mm) ;	Correct answer with no working shown gains full marks ALLOW 1.0 to 1.02	(3)

Question Number	Answer	Additional Guidance	Mark
***6(a)(iii)**	1. use the same species of plant ; 2. cut 2 mm length of root tip ; 3. place root tip in acid / eq ; 4. credit named stain ; 5. credit details of method ; 6. idea of counting number of cells in mitosis **and** the total number of cells at different distances (from the root cap) ; **OR** calculate mitotic index at each distance ;	**QWC focus on logical sequence** 1.ACCEPT use same plant / root 2. ALLOW length up to 5mm 3. ACCEPT warmed in acid 4. e.g. (aceto)carmine, Feulgen's, Schiff's, toluidine (blue), orcein, methylene blue 5. e.g. teasing root tissue apart, squashing the cells underneath a cover slip, warming to intensify stain 6.ACCEPT counting number of cells in mitosis **and** in interphase at different distances from the root cap 6. NOT different regions	(5)