

- M1.** (a) cells become specialised/change to carry out a particular function; 1
- (b) (i) named organelle e.g. nucleus/nuclear envelope; vacuole; chloroplast; RER; mitochondrion; no membrane bound organelles;  
*(only award if no organelles named)*  
*(reject ribosomes, cell membrane, cell wall)*  
 ref to large(r) size 2 max
- (ii)  $94 / 95 / 96 \times \frac{10}{44 / 45 / 46} \frac{\text{(measured distance Y - Z)}}{\text{length of scale bar}}$   
 20.4 – 21.8  
*(correct answer 2 marks)* 2
- (iii) no cell wall (permanent) / (large) vacuole / chloroplasts / smaller;  
*(accept microvilli)* 1 max

[6]

