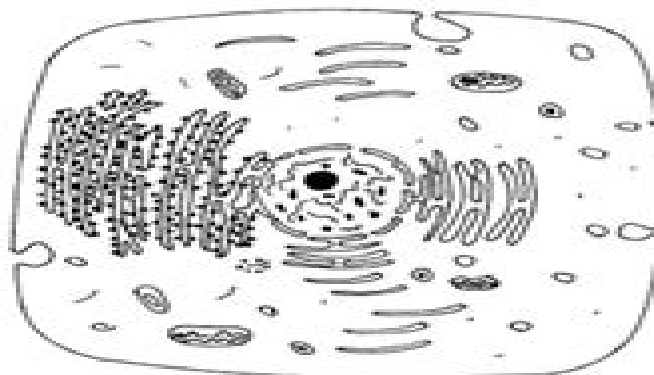


### 3.4 BIOLOGY (231)

#### 3.4.1 Biology Paper 1 (231/1)

- 1 (a) What is meant by the term wilting? (1 mark)  
(b) Explain how an increase in temperature affects the rate of active transport. (2 marks)

- 2 The diagram below represents a cell as seen under an electron microscope.



- (a) Based on the diagram, state whether it represents an animal cell or a plant cell. (1 mark)  
(b) Give **two** reasons for your answer in 2(a) above. (2 marks)  
(c) Why is the palisade layer a tissue? (1 mark)
- 3 (a) State **two** external features found in the class Mammalia only. (2 marks)  
(b) Name the taxonomic unit that comes immediately after a phylum in classification. (1 mark)
- 4 (a) State **two** roles of mucus in the stomach. (2 marks)  
(b) Explain how age determines a person's energy requirements. (2 marks)
- 5 Describe how turgor pressure builds up. (3 marks)
- 6 Using a microscope, a student counted 55 cells across a field of view whose diameter was  $6000\mu\text{m}$ . Calculate the average length of the cells. Show your working. (2 marks)
- 7 Explain how the following forces contribute to the movement of water up the xylem vessels: (2 marks)  
(a) cohesion;  
(b) adhesion.

# Kcse 2013 Biology Paper 1

**Umesh Ramnarain**



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