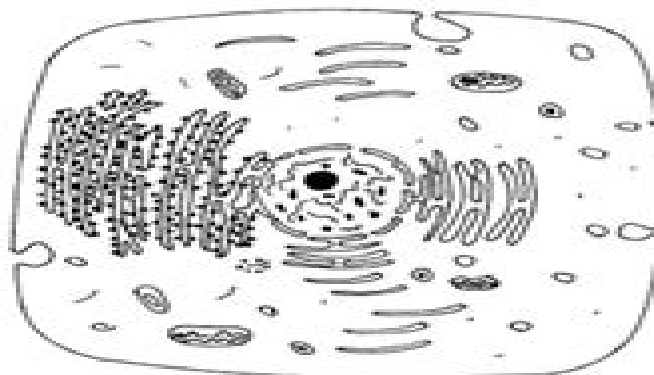


### 3.4 BIOLOGY (231)

#### 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

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'Reall Useful Resources Staff'.

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*School Science Practical Work in Africa* Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools. It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries. Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach. The book provides empirical research on approaches to practical work, contextual factors in the enactment of practical work and professional development in teaching practical work. This book will be of great interest to academics, researchers and post graduate students in the fields of science education and educational policy. **Biology 2013 NCEA Level 1 Revision Guide** Reall Useful Resources Staff, 2013-01-31

## **Kcse 2013 Biology Paper 1** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Kcse 2013 Biology Paper 1**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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