



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
SZL 301: HISTORY PHILOSOPHY OF BIOLOGY

DATE: Tuesday 27th March, 2012

TIME: 2.00 p.m. – 4.00 p.m.

INSTRUCTIONS

Answer ALL questions in Section A and any one question in Section B. Within a section ALL questions carry equal marks. Illustrate your answers and give examples where appropriate.

SECTION A – Answer ALL questions.

1. Explain the interpretation and application of philosophy.
2. Outline the main processes by which the science of biology began.
3. Describe briefly the political impact on biological activities.
4. Describe briefly the activities and biological achievement of Herophilus.
5. Explain the interpretation of the following terminologies:
 - (a) Epistemology
 - (b) Materialism
 - (c) Empiricism
6. Outline the scientific interpretation and application of theories.
7. Explain the genetic laws of heredity according to Gregory Mendel.
8. Outline the philosophical difference between Biological Mechanists and Biological Vitalists as two schools of thought.

SECTION B – Answer ANY/ONLY 1 question.

9. Write a short essay on the interpretation, rise, spread and impact of “Renaissance” in the Middle Ages of Europe.
10. Discuss the interpretation, use and impact of technology, especially after the invention of the microscope.

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