



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 208: APPLICATION OF COMPUTERS IN BIOLOGY

DATE: Wednesday, 28th March, 2012

TIME: 4.30 p.m. – 6.30 p.m.

INSTRUCTIONS:

Answer **ALL** questions in Section A and any **ONE** question in Section B.

SECTION A:

Answer **ALL** questions.

1. Explain what is a spreadsheet and give FIVE components of a spreadsheet.
2. Define computer based information system and give FIVE components of such a system.
3. Explain limitations of computers in biology.
4. Explain sources of a research topic in biology.
5. Describe briefly methods of data analysis and presentation.
6. Define Questionnaire as a tool for data collection and state its advantages.
7. Explain the importance of reporting research findings.

8. Using an illustration, show the different categories of computer software.

SECTION B:

Answer any **ONE** question.

9. Giving appropriate examples, explain how the advancement in information communications technology (ICTs) have influenced research in the field of biology.
10. Discuss the role of search techniques in the retrieval of information and publications from the internet.
11. Describe the logical process of undertaking scientific research.