



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE

SZL 208: APPLICATIONS OF COMPUTERS IN BIOLOGY

DATE: MONDAY, 12TH APRIL 2010

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 with diagrams and give examples where appropriate.

Section A (40 marks) - Answer ALL questions.

1. Explain the following terms:
 - a. Computer
 - b. Population
 - c. Sample
 - d. Variable
 - e. Spreadsheet
2. Briefly explain five advantages of interviews as a method of data collection.
3. Differentiate between qualitative and quantitative variables.
4. Outline various ways of entering coded data into a computer.
5. Briefly explain five limitations of a computer application.

6. Name a computer programs that can be used for scientific data analysis and explain four ways in which it is used.
7. Distinguish between ratio and interval scale of measurement.
8. State the major characteristics of computer evolution.

Section B (30 marks) - Answer any ONE question.

9. Discuss the role of computers in processing biological data.
10. Discuss ways in which the Internet can be used in information retrieval and publishing.
