



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SMR 108: APPLICATION OF COMPUTERS IN MARINE SCIENCES

DATE: Friday, 30th March, 2012

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS:

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

SECTION A:

Answer **ALL** questions.

1. Explain the major characteristics that distinguish different generations of computers.
2. Explain methods of getting a research topic in marine sciences.
3. Using a diagram, illustrate the main components and functions of a computer.
4. Explain literature review and its importance in research.
5. Outline applications of computers in marine sciences.
6. Giving appropriate examples differentiate between dependent and independent variables.

7. Explain the term sampling and two methods used.
8. Distinguish between inferential and descriptive statistics.

SECTION B:

Answer any **ONE** question.

9. Using a specific statistical package, discuss its advantages and disadvantages in conducting research.
10. Discuss the Pros and Cons of internet as a research tool in the field of marine sciences.
11. Using appropriate examples discuss the following techniques as applied in retrieval of information:
 - a) Basic search
 - b) Advanced search