



**UNIVERSITY OF
SWAZILAND**

FACULTY OF HEALTH SCIENCES

DIPLOMA IN ENVIRONMENTAL HEALTH SCIENCES

END OF SEMESTER I EXAMINATIONS

TITLE OF PAPER: RESEARCH METHODS

COURSE CODE: HSC306

DURATION: 2 HOURS

DATE: DECEMBER 2012

INSTRUCTIONS:

1. READ THE QUESTIONS CAREFULLY.
2. ANSWER **ANY 4 QUESTIONS**.
3. EACH QUESTION CARRIES 25 MARKS. WHERE A QUESTION IS SUBDIVIDED INTO PARTS, THE MARK FOR EACH PART IS SHOWN IN BRACKETS.
4. NO PAPER SHOULD BE BROUGHT INTO THE EXAMINATION ROOM.
5. BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.

SPECIAL REQUIREMENTS: NIL

QUESTION 1

- (a) Explain the difference between completely randomized design and randomized block design. [10]
- (b) Justify the use of blind and double blind studies in health research, highlighting the importance of the control group. [15]

[25]

QUESTION 2

State the requirements in each of the following sections of a proposal:

- (a) Problem statement. [5]
- (b) Literature review. [5]
- (c) Methodology. [10]
- (d) Work-plan. [5]

[25]

QUESTION 3

Write notes on the following:

- (a) Sampling frame. [5]
- (b) Probability sampling. [5]
- (c) Cluster sampling. [5]
- (d) Standard deviation. [5]
- (e) Student's t-Test. [5]

[25]

QUESTION 4

Compare the type of information obtained in a case control study with that from a cohort study. [10]

Briefly discuss the types and effects of confounding factors in research. [15]

[25]

QUESTION 5

- 2. (a) Outline the principles involved in obtaining informed consent. [10]
- (b) Briefly explain how the Nuremberg Code came about and summarise its contents. [15]

[25]

THE END OF QUESTION PAPER