M.Sc IN CLINICAL NUTRITION AND DIETITICS
I-SEMESTER
EXAMINATION- JUNE 2012
COURSE-III RESEARCH METHODS AND BIOSTATISTICS

Time: 3hours   Max Marks: 80

Answer the questions from all parts following their internal choice

Part A

Answer any <u>ten</u> of the following: 3X10=30

1. Define Sample space

2. Define mutually independent events

3. Explain measures of dispersion and is use in clinical research

4. What is Confidence interval?

5. Explain the content validity in the context of developing questionnaire.

6. Explain the Internal consistency reliability and its use in developing questionnaire

7. State the different types of sampling errors

8. Explain generalizability and its importance in clinical research

9. List the methods of data collection

10. Write a note on minimum detectable difference in the context of sample size estimation

11. Explain the usefulness of randomization in clinical research.

12. Define Regression and its use in clinical nutrition research.

13. Write short note on graphs.

14. Write on confounding.

Part B

Write briefly on any <u>four</u> of the following: 5X4=20

1. Explain one tailed and two-tailed research hypothesis and give two examples in each

2. What is sampling? Give the principles of sampling.

3. State the different levels of scale development and explain

4. Explain Population and sample with examples.

5. Explain computerized documentation in detail.

6. Explain hypothesis test on difference between two means

Part C

Answer any <u>three</u> of the following questions: **10X3=30**

1. How do you plan research project in clinical nutrition to formulate specific diet for HIV patients?
2. Explain the criteria of good research and define research problem.
3. Explain correlation and regression with merits and demerits
4. Explain Systematic sampling method and give two merits and demerits.
5. Elaborate on genome analysis.

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