00332

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination December, 2011

MFN-009 : RESEARCH METHODS AND BIOSTATISTICS

Time	e : 3 hc	ours	Maximum Marks:	Maximum Marks: 100			
Note : Question No. 1 is compulsory . Answer five question in all.							
1.	(a)	Define the following:					
		(i)	Science				
		(ii)	Population	٦.			
		(iii)	Qualitative Data				
		(iv)	Discrete variable				
		(v)	Sampling Frame				
	(b)	Give one example for each of the following:		5			
		(i)	Declarative Hypothesis				
		(ii)	Ordinal Scale				
	,	(iii)	Close Ended Question				
		(iv)	Graphic Scale				
		(v)	Unstructured Interview				

	(c)	Fill in the Blanks:			
		(i)	Qualitative Data arematerials.		
		(ii)	Data are eitheror		
		(iii)	is the middle value in a distribution.		
		(iv)	Negative predictive is the probability that a human being is not infected whentest result is observed.		
		(v)	Positive of variance is the standard deviation.		
2.	Breast Cancer is a major problem among the women in India. As a researcher, you have to study the breast cancer cases in your district. Design a research proposal with the following points:				
	(a)	Define the research problem		2	
	(b)	Research objectives of the study			
	(c)	Population, Sample and Method of Sampling.		3	
	(d)	Research Method		5	
	(e)	Hypothesis		2	
	(f)	Metho	od of Data collection	3	

- 3. Explain the following briefly giving suitable examples: 5+5+5+5
 - (a) Quasi Experimental Design
 - (b) Characteristics of Good Research Tool
 - (c) Non Probability Sample
 - (d) Points to consider while developing a research design.
- 4. Differentiate between the following:

6+6

- (a) Research tools giving appropriate examples:
 - (i) Documents and official Records.
 - (ii) Standardized tests and Teacher Made Tests.
- (b) Differentiate between the following 4+4 sampling methods with appropriate examples.
 - (i) Cluster Sampling and Multi-stage sampling.
 - (ii) Purposive Sample and Incidental Sample.
- 5. Marks obtained by 8 Boys in Nutrition and Food 20 Science is as follows:

Nutrition

: 35, 40, 46, 32, 31, 54, 60, 62

Food Science

: 61, 36, 41, 47, 23, 39, 59, 55

Find out the product moment correlation for the above two variables.

- **6.** (a) Explain the three main types of observational study.
 - (b) Explain the three characteristics of 6 experimental research.
 - (c) Explain the various methods of non- 8 probability samples.
- 7. Compute mean, median, mode, variance and standard deviation for the following frequency distribution

- 8. Write short notes on any four of the following
 - (a) Parametric Tests

- 5+5+5+5
- (b) Characteristics of Good hypothesis
- (c) Cross Sectional Study
- (d) Main Steps for Experimental Research.
- (e) Representativeness of Sample.