MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT) (M.Sc. DFSM)

Term-End Examination

June, 2016

MFN-009: RESEARCH METHODS AND BIOSTATISTICS

Tim	e:3 h	ours Maximum Marks : 100
Note:		 (i) Question No. 1 is compulsory. (ii) Answer five questions in all. (iii) All questions carry equal marks.
1.	(a)	Define the following: (i) Parametric Test (ii) Variance (iii) Discrete Variable (iv) Sampling Design (v) Population
	(b)	Give one example for each of the following: (i) Determinant (ii) Demographic Variable (iii) Research Tool (iv) Sampling Technique (v) Test of Mental Ability
	(c)	List the main limitations of correlational studies.

2.	"Lung Cancer is becoming common due to several reasons". Develop a research proposal to find out the reasons of lung cancer in your state. Proposal should include following points:				
	(a)	Title of the Research Study	2		
	(b)	Research Objectives	3		
	(c)	Sample and Sampling Technique	5		
	(d)	Research Design	3		
	(e)	Research Instruments	5		
	(f)	Method of Data Collection.	2		
3.	Explain the following in brief :				
	(a)	Official Records	5		
	(b)	Use of Rating Scale	5		
	(c)	Content Validity	5		
	(d)	Uses of Questionnaire	5		
4.	Differentiate between the following sets of terms:				
	(a)	Nominal Scale and Ordinal Scale	5		
	(b)	Histogram and Frequency Polygraph	5		
	(c)	Structured Interview and Unstructured Interview	5		
	(d)	Participant observation and Non- participant observation	5		

5.	Compute mean, median and mode of the	20
	following frequency distribution:	

C.I.	f
<i>71 - 7</i> 5	5
66 - 70	8
61 - 65	4
56 - 60	3
51 - 55	2
46 - 50	6
41 - 45	1

- 6. (a) Describe the advantages of formulating a 6 research design.
 - (b) Describe the strengths of using case study 6 method in research.
 - (c) Write the sources of data in the design of 8 short studies.
- 7. (a) 8 females and 6 male students enrolled in MFN course obtained the following score :

Female: 30 42 50 35 64 48 62 33

Male: 34 44 58 60 38 47

Calculate significance of difference between the mean scores of the females and the males.

(b) The theory and practical marks of 10 10 students are given below:

Theory (x): 24 34 33 22 37 23 38 33 44 35 Theory (y): 15 21 28 31 18 24 36 32 27 18

Find the correlation coefficient between x and y.

- 8. Write short notes on any four of the following:
 - (a) Data Processing

5+5+5+5

- (b) External Criticism of Documents
- (c) Normal Probability Distribution
- (d) Uses of Rating Scales
- (e) Non-parametric tests