P.T.O.

MFN-009

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

## **Term-End Examination**

June, 2017

MFN-009: RESEARCH METHODS AND BIOSTATISTICS

Time: 3 hours			Maximum Marks: 100		
Note: (i)		(i)	Question No. 1 is compulsory.		
		(ii)	Answer five questions in all.		
		(iii)	All questions carry equal marks.		
1.	(a)	Expl	ain the following in 2-3 sentences each.	10	
		(i)	Research		
		(ii)	Declarative Hypothesis		
		(iii)	Sample		
		(iv)	Structured Interview		
		(v)	Logical Error		
	(b)	Give	one example of each of the following:	5	
		(i)	Correlational Study		
		(ii)	Power Test		
		(iii)	Numerical Scale		
		(iv)	Null Hypothesis		
		(v)	Cohort Study		

	(c)	Fill i	n the blanks :	5	
		(i)	Case study is a form of research.		
		(ii)	Experimental study establishrelationship.		
		(iii)	Population contain numb of units.	er	
		(iv)	Structured questionnaires po questions.	se	
		(v)	Chi-square test is used fordata.		
2.	in ad prop (a) (b) (c)	lolesce osal v Rese Rese Rese Samj	er wants to study Vitamin D deficiencents girls of their city. Design a research to the street of their city. Design a research to the street of the street		
3.		Total Population and Sample Population Simple and Stratified Sampling			
4.	exam (a) (b)	nple. Qual	itative Data ogram itivity	le +5+5+5	
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5. (a) Compute variance and standard deviation 5+5 for the following frequency distribution.

Class Interval Fre	quen
120 - 124	4
125 - 129	3
130 - 134	9
135 - 139	8
140 - 144	7
145 - 149	1

(b) Calculate Mean, Median and Mode from the following grouped data when frequency is given:

Class Interval	Frequency
35 - 39	2
40 - 44	1
45 - 49	6
50 - 54	0
55 - 59	5
60 - 64	9

- 6. (a) Explain any three strengths and three 6+6 limitations of the following research tools:
  - (i) Interview
  - (ii) Journals
  - (b) Describe how the researcher can ensure the quality of data.
- 7. (a) Compute the rank difference correlation for the following data.

X	10	12	9	20	16	11.	22	13
Y	9	11	14	21	15	7	12	8

(b) Describe the techniques of Interviewing.

- 8. Write short notes on any four of the following:

  5+5+5+5
  - (a) Asking question to collect data
  - (b) Stages in process of observation
  - (c) Uses of Attitude Scale
  - (d) Incidental Sample
  - (e) Pre-experimental Design