Time . 3 Hours

[Maximum Marks: 100

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

Term-End Examination,

December 2019

MFN-009: RESEARCH METHODS AND BIOSTATISTICS

• •			[2	[2	
			Question No.1 is compulsory. Answer five questions in all. All questions carry equal marks.	r five questions in all.	
1.	a)	plain the following in 2-3 sentences each.	10		
		i)	Biostatistics		
		ii)	Science		
		iii)	Hypothesis		
		iv)	Sampling		
		v)	Usability of data		
	b)	Giv	5		
		i)	Rating by cumulative point		
		ii)	Quota sample		
		iii)	Open ended question		
		iv)	Limitation of Interview		

v) Null hypothesis

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	c)	Fill in the Blanks: 5			
		 i) Number of people sick during a time p divided by number of people in the population is called 	eriod total		
		ii) is a measure of position rather magnitude.	then		
		iii) is a measure of the distan standard deviation of a sample from the r	ce in nean.		
		iv) Data which are got by applying nominal of measurement is Data.			
		v) Number of units sampled for inclusion i study is called	n the		
2.	Dengue is a very common fever during the rainy season. Design a brief research proposal to study the cleanliness in your area with the following components:				
	i)	Research Title	2		
	ii)	Research Questions and objectives	5		
	iii)	Research design	2		
	iv)	Sample, sample size and sample technique	6		
	v)	Research tools	3		
	vi)	Data collection and analysis	2		
3.	Differentiate between the following by giving examples 5+5+5+5				
	a)	Correlational studies and migrant studies.	,,,,		
	b)				
	c)				
	d)	Participant observation and non-participhervation	pant		

4. Explain the following briefly by giving suitable examples 5+5+5+5

- a) Journals
- b) Quantitative data
- c) Frequency polygon
- d) Construct validity
- 5. a) Compute product moment correlation for the following data 10

2 12 22 32 52 62 X 42 5 7 1 4 3 8 2 Υ

b) Calculate the Median and Mode from the following grouped data when frequency is given. 5+5

C.I	Frequency
70-74	2
65-69	6
60-64	5
55-59	7
50-54	3
45-49	1

- 6. a) Describe the Quasi Experimental Design. Give a suitable example.
 - b) Describe the main steps involved in a case control, study design.

- 7. a) Differentiate between close ended and Open ended questionnaire. Explain the stages in the process of designing the Questionnaire. 5+5
 - b) Describe the Normal probability distribution curve used in Research.
- 8. Write short notes on any four of the following:

5+5+5+5

- a) Health related variables
- b) Scope of research in nutrition
- c) Utilization of Records
- d) Measures for validity of diagnostic tests
- e) Systematic sampling

