MFN-009

MASTER OF SCIENCE (DIETETICS AND ► FOOD SERVICE MANAGEMENT) (M.Sc. DFSM) C Term-End Examination

June, 2018

MFN-009 : RESEARCH METHODS AND BIOSTATISTICS

Time: 3	hours	Maximum Marks : 10
Note :	<i>(i)</i>	Question No. 1 is compulsory.
	(ii)	Answer five questions in all.
	(iii)	All questions carry equal marks.

- 1. Define/Explain the following in 2 3 sentences 20 each :
 - (a) Epidemiology
 - (b) Systematic Error
 - (c) Cohort
 - (d) Placebo
 - (e) Population
 - (f) Null Hypothesis
 - (g) Control in Experimental Research
 - (h) Representativeness of sample
 - (i) Participant observation
 - (j) Individual Test

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2.	You have to study malnutrition among children in the age group one to seven in your district. Develop research proposal with the following components :				
	(a)	Title of Research Study	2		
	(b)	Research Objectives	4		
	(c)	Sample size & Sampling techniques	4		
	(d)	Research Tools	5		
	(e)	Method of Data Collection & Data Analysis			
		3+	-2=5		
3.	Expl	ain the following in brief :			
	(a)	Ethical Neutrality	5		
	(b)	Uses of questionnaire	5		
	(c)	Content validity	5		
	(d)	Qualitative Data	5		
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4.	Differentiate between the following sets of terms :				
	(a)	Discrete and continuous variable	5		
	(b)	Single blinding and double blinding	5		
	(c)	Nominal scale and ordinal scale	5		
	(d)	Thurstone scale and Likert scale	5		
5.		scores of 10 students enrolled in MFM-009 is n below :	20		
	Score	e : 20, 20, 17, 16, 14, 14, 10, 8, 6, 4			
		ulate mean, median, mode, standard			
	deviation and range for the above data.				
6.	(a)	Describe the basic characteristics of a good hypothesis.	6		
	(b)	Explain the points you will keep in mind while developing the research design.	6		
	(c)	Describe the advantages and limitations of the case control studies.	8		

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7. (a) Calculate the product moment 'r' Pearson 10 from the following data for two variables x (Height) and y (Weight) for 10 children.

x - 120, 125, 127, 125, 145, 140, 155, 160, 140, 161 y - 45, 47, 50, 52, 55, 50, 58, 60, 55, 62

- (b) Describe the parametric and non-**10** parametric tests which can be used by the researcher while analysing their data.
- 8. Write short notes on **any four** of the following :

5+5+5+5

- (a) Characteristics of normal probability curve
- (b) External criticism of data
- (c) Uses of documents as research tool
- (d) Validity of research tool
- (e) Cluster sampling