No. of Printed Pages : 5

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MFN-009

MASTER OF SCIENCE (DFSM)

Term-End Examination June, 2014

MFN-009 : RESEARCH METHODS AND BOSTATICS

Time : 3 hours

Maximum Marks : 100

Note : Question No. 1 is compulsory. Answer five questions in all. All questions carry equal works.

1.	(a)	Define the following.	10
	(i)	Research	
	(ii)	Nutrigenomics	
	(iii)	Alternate Hypothesis	
	(iv)	Cohort	
	(v)	Population	
	(b)	Give one example of each of the following.	5
	(i)	Numerical Scale	
	(ii)	Structured Questionnaire	
	(iii)	Individual Test	
	(iv)	Participant Observation	
	(v)	Histogram	

- (c) Fill in blanks:
- (i) relates to the relevance of a content of a research tool.
- (ii) Complete, accurate list of all the units in a population is called
- (iii) In sampling the units of the population are not selected at the discrection of the researcher.
- (iv) is a test to measure the individuals concepts after intervention.
- (v) Hypothesis should provide to research.
- 2. A researcher wants to study the causes of night blindness in children in the age group 1 to 5 in his/her state. Design a research proposal with following components:

(a)	Statement of research problem.	2
(b)	Research objectives.	5
(c)	Research Design (methodology, population and sample).	6
(d)	Research Instruments.	5
(e)	Research Analysis.	2

3.	Diffe suita	erentiate ble exam	between ples :	the	following	giving	
	(a)	Indepen	dent and d	lepend	lent variabl	e.	5
	(b) Stratified and systematic sampling.(c) Purposive sample and Incidental sample.						5
							5
	(d) Interval Scale and Ratio Scale.						
4.	Explain the following briefly giving examples:						
	(a)	Data Pr	ocessing				5
	(b)	Halo-ef	fect				5
	(c)	Biased	Sample				5
	(d)	Case St	tudy				5
5.	(a)	Compute mean, median and mode for the following frequency distribution					12
		CI		F.			
		150-14	4	5			
		145-13	9	3			
		140-13	4	9			
		135-12	.9	2			
		130-12	24	6			
		125-11	9	2			

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(b) The fasting Glucose level in the blood of 8 children in std x 1 is given below. Calculate standard deviation of the fasting blood glucose level.

Fasting Blood Glucose Level (mg/dl)

00	
90	
120	
115	
80	
113	
140	
125	
150	
Enlist any two strengths and two limitations	1(

- 6. (a) Enlist any two strengths and two limitations 10 of the following research tools
 - (i) Interview
 - (ii) Observation tools
 - (b) List the various designs of experimental 10 study. Differentiate between any two types.

- 7. (a) Compute the product moment 'r' from the two variables i.e. marks obtained by students in physics (x) and marks in math (y) x 40 45 30 62 70 26 35 43 60
 y 32 26 46 63 52 41 50 39 45
 - (b) Describe the two graphs which are made 4+4 to represent the relation between two variables.
- 8. Write short notes on *any four* of the following
 - (i) Purpose of Epidemiology.
 - (ii) Discrete variables.
 - (iii) Migrant studies in nutrition.
 - (iv) Stages of Research Process.
 - (v) Validity of Research.

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5x4 = 20