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MFN-009

**MASTER OF SCIENCE (DIETETICS
AND FOOD SERVICE MANAGEMENT)**

M. SC. (D. F. S. M.)

Term-End Examination

December, 2020

**MFN-009 : RESEARCH METHODS AND
BIostatISTICS**

Time : 3 Hours

Maximum Marks : 100

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

1. Explain the following in **2-3** sentences each : 20
 - (a) Disability
 - (b) Health variables
 - (c) Morbidity
 - (d) Cohort study
 - (e) Systematic error
 - (f) Experimental study
 - (g) Pretest

- (h) Sample size
 - (i) Histogram
 - (j) Non-parametric test
2. Vitamin D deficiency is very common in women in the age group 35 and above. You have to propose a study in your district on this problem. Develop a research proposal with the following components :
- (a) Title of the research study 2
 - (b) Research questions 3
 - (c) Research objectives 3
 - (d) Sampling and sampling techniques 3
 - (e) Research design 3
 - (f) Research tools 3
 - (g) Method of data collection 3
3. Explain the following in brief :
- (a) Limitations of questionnaire 5
 - (b) Unstructured interview 5
 - (c) Declarative hypothesis 5
 - (d) Authenticity of data 5

4. Differentiate between the following sets of terms with appropriate examples :

- (a) Qualitative and Quantitative variables 5
- (b) Population and sample 5
- (c) Quota sample and incidental sample 5
- (d) Nominal scale and metric scale 5

5. Test scores of 10 learners enrolled in MFN-009 is given below :

40, 36, 29, 14, 27, 45, 50, 12, 39, 19

Calculate the range, mean, mode, median, variance and standard deviation for the above data. 20

6. (a) Describe the characteristics of case study research method. 10
- (b) Explain the various methods of sampling techniques. 10
7. (a) Enumerate the characteristics of normal distribution curve. 5

- (b) Given below are the Theory (X) and Practical (Y) scores of 10 students. Calculate the Pearson's ' r ' : 15

X	Y
45	42
54	50
52	55
58	46
62	59
46	41
55	46
49	48
50	45
54	48

8. Write short notes on any *four* of the following :
- (a) Quasi experimental design 5
 - (b) Types of interview 5
 - (c) Experience documents 5
 - (d) Data processing 5
 - (e) Factorial analysis 5