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MFN-009

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

Term-End Examination

June, 2019

**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. (a) Explain the following in 2-3 sentences
each : 10
- (i) Epidemiology
 - (ii) Research
 - (iii) Objective
 - (iv) Sample
 - (v) Reliability
- (b) Give *one* example for each of the
following : 5
- (i) Forced Choice Ratings

- (ii) Purposive sample
 - (iii) Close ended question
 - (iv) Use of Interview
 - (v) Declarative hypothesis
- (c) Fill in blanks : 5
- (i) Number of deaths in a group of people is called
 - (ii) The arithmetic average of a distribution is called
 - (iii) is the measures of the likelihood of an event.
 - (iv) Data which are got by applying interval scale of measurement is data.
 - (v) Listing of all sampling units in the target population is called
2. You want to study the causes of cold and cough during winters in children in your city.

Design a brief research proposal with the following components :

- (a) Research title 2
- (b) Research questions and objectives, 5
- (c) Research design 3
- (d) Research methods and tools 4
- (e) Data collection and analysis 6

3. Differentiate between the following by giving examples :
- (a) Case control and cohort studies 5
 - (b) Nominal scale and ordinal scale 5
 - (c) Power test and Speed test 5
 - (d) Participant observation and non-participant observation 5
4. Explain the following briefly by giving suitable example :
- (a) Official records 5
 - (b) Qualitative data 5
 - (c) Histogram 5
 - (d) Content validity 5
5. (a) Compute product moment correlation for the following data : 10

X	Y
5	3
15	13
20	23
25	33
30	43
35	53
40	63

- (b) Calculate the median and mode from the following grouped data when frequency is given : 10

C. I.	Frequency
70—74	5
65—69	3
60—64	9
55—59	6
50—54	2
45—49	7

6. (a) Explain the steps involved in conducting experimental research. 10
- (b) Explain the characteristics of case study method. 10
7. (a) Differentiate between structured observation and unstructured observation. Explain the process of observation. 5 + 5
- (b) Describe, how as a researcher you will ensure the quality of data. 10
8. Write short notes on any *four* of the following : 5+5+5+5+5
- (a) Demographic variables
- (b) Collection of data
- (c) Observation of behaviour
- (d) Adequacy of sample
- (e) Cluster sampling