



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – February 2025

Semester-II

Class: I M.Sc

Time: 2 Hours

Branch : Food Service Management and Dietetics

Max. Marks: 60

23MFDC13 Research, Statistical Methods and Computer Applications

Course Outcomes:

1. Acquire in-depth knowledge in research techniques relating to dietetics and food service management.
2. Identify research problems and define research hypothesis/research questions relating to food, dietetics and food service operation.
3. Formulate appropriate research design pertaining to dietetics and food service management.
4. Perform Statistical analysis and interpret research findings
5. Communicate documented research findings to the community.

Part A

6 x 1 = 6

Choose the Correct Answer

1. A research conducted to gain new insights into a phenomenon is called CO1K3
a. Experimental b. Exploratory c. Descriptive d. Diagnostic
2. Hedonic Scale used for sensory analysis of food is a CO4K3
a. Nominal Scale b. Ordinal Scale c. Interval Scale d. Ratio Scale
3. Increasing sample size of a study reduces the error of CO3K3
a. Bias b. Chance c. Experiment d. Researcher
4. The influence of extraneous variable can be eliminated by introducing CO2K3
a. Purposive sampling b. Control group c. Experimental Group d. Randomization
5. A survey of prevalence of anaemia among adolescent girls is an example of CO2K4
a. Before after study b. Longitudinal study c. Cross sectional study d. Retrospective study
6. Which of the following is an example of non probability sampling CO3K2
a. Cluster b. Stratified c. Quota d. Random

Part B

3 x 6 = 18

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 7.a. Explain the steps to be followed in selecting a research topic. CO1K2
or
- 7.b. Give the features of a good research design. CO3K4
- 8.a. Brief on the different type of measurement scales. CO2K2
or
- 8.b. Explain probability sampling with an example. CO1K5
- 9.a. Explain the tests of sound measurement. CO3K1
or
- 9.b. Elaborate on collection of data through questionnaires. CO4K5

Part C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 10.a. Elaborate on different steps in the research process. CO2K4
or
- 10.b. Explain the different types sampling techniques. CO1K3
- 11.a. Detail on the variations in experimental designs with suitable examples. CO3K2
or
- 11.b. Elaborate on methods of collecting primary data. CO2K1
- 12.a. Design a research to study the effectiveness of a novel iron rich food in Management of anaemia. CO3K5

Or

12.b. Calculate mean, median, mode and SD of the following data

CO4K4

| Weight in Kg | No.of sample | Weight in Kg | No of sample |
|--------------|--------------|--------------|--------------|
| 81-90 | 2 | 141-150 | 37 |
| 91-100 | 5 | 151-160 | 29 |
| 101-110 | 13 | 161-170 | 11 |
| 111-120 | 20 | 171-180 | 3 |
| 121-130 | 30 | 181-190 | 1 |
| 131-140 | 49 | | |

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