

(6 pages)

S.No. 6566

P 22 FSCC 32

(For candidates admitted from 2022–2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Food Service Management and Dietetics

RESEARCH METHODOLOGY AND STATISTICS

Time : Three hours

Maximum : 75 marks

SECTION A — (20 Marks)

- I. (A) Multiple choice questions: (5 × 1 = 5)
1. A variable that cause when the dependent variable is the effect of the casual study is
 - (a) Independent variable
 - (b) Control variable
 - (c) Compounding variable
 - (d) Composite variable
 2. A type of examination looking to find practical solution for existing problem is
 - (a) action research
 - (b) applied research
 - (c) evaluation research
 - (d) fundamental research

3. A collection of information from all units in population or an enumeration of population is called as
 - (a) Census
 - (b) Sample
 - (c) Population
 - (d) Rating scale
4. The graphical representation of distribution of data by set of rectangles adjacent to each other where each bar as kind of data is
 - (a) polygon
 - (b) histogram
 - (c) coefficient variance
 - (d) kurtosis
5. The group under bivariate analysis is ,
 - (a) Correlation
 - (b) Regression
 - (c) Both
 - (d) Never

(B) Fill in the blanks : (5 × 1 = 5)
6. A _____ states that there is no change in the dependent variable due to change in the independent variable.

7. An empirical interventional study used to estimate the casual impact of an intervention on target population without random assignment is _____
8. The data collected from the available records is _____.
9. The correlation between one or more quantitative variables and one or more binary variable is _____.
10. The average amount of variable in a data set is _____.

II. Answer ALL questions. (5 × 2 = 10)

11. Define variables.
12. What is a case study?
13. Write on purposive sampling.
14. List the uses of measures of dispersion.
15. Give a note on empirical research.

SECTION B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

16. (a) Explain the characteristics of research.
Or
(b) Differentiate quantitative and qualitative research.
17. (a) Write a note on multi stage sampling and multiphase sampling with its advantages.
Or
(b) Explain the methods of collecting secondary data.
18. (a) Illustrate the research process flow chart and explain.
Or
(b) Enumerate the factors to consider in selection of a research problem.
19. (a) Write in detail properties and uses of nominal and ordinal scale.
Or
(b) Explain the errors in measurement in a research.

20. (a) Give a detailed note on non-comparative scales in research analysis.

Or

- (b) Explain the types of validity.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

21. Describe the need and development of a good hypothesis in a research with the types of hypothesis.
22. Elaborate the problems encountered by researchers and ways to overcome during social sciences researches.
23. Discuss in detail on sampling and non-sampling errors with relevant examples.
24. The given data reflects the fat content of snacks prepared at two different outlets. Find out whether there is significant difference in the mean fat

X 7 8 13 8 9 4 9

Y 9 9 14 7 6 7 7

25. The following data shows the Age (X) and Weight (Y) of 10 male persons :

X Age 42 38 26 40 28 30 46 52 22 30

Y kgs 60 65 70 62 70 60 58 65 70 68

Find the regression equation Y on X.