

TILAK MAHARASHTRAVIDYAPEETH, PUNE
M.SC. IN NUTRITION & FOOD SCIENCE
EXAMINATION : APRIL / MAY - 2025
FIRST SEMESTER
Sub. : Research Methodology (MSC24N-115TH)

Date: 10/05/2025

Total marks: 60

Time: 10.00 am to 12.30 pm

Instructions:

- 1) All questions are compulsory and carry equal marks.
- 2) Any kind of misconduct is punishable.

Q. 1 Fill in the right answer (10)

1. Experimental techniques are used in _____ type of Research.
a) Observational Research b) Laboratory Research
c) Fundamental Research d) Basic Research
2. Recipe A and Recipe B are equally effective on anemia, then _____ hypothesis will get prove.
a) Null b) Alternative
c) Both d) None
3. The items required for carrying out research method is known as _____.
a) Research Material b) Research Action
c) Research Protocol d) Research Aims
4. _____ data is always in either in rational or in whole number (अपूर्णांक)
a) Continues b) Discrete
c) Grouped d) Ungrouped
5. Find mode of the following data sets: 2, 9, 6, 9, 8, 10, 0, 1, 15, 1, 10, 0, 11, 10
a) 9 b) 8
c) 10 d) 0
6. When the population is not countable, it is known as _____.
a) Not Counting b) Definite
c) Finite d) Infinite
7. In _____ type of sampling, subgroups of the population are used as sampling unit, rather than individuals.
a) Simple b) Simple Random
c) Stratified d) Cluster
8. 'Number of family member', is the _____ type of data.
a) Grouped b) Continues
c) Discrete d) Qualitative
9. _____ this type of research is based on Basic Research.
a) Applied b) Pure
c) Both d) None

10. _____ is numerical and statistical research.
- a) Quantitative
 - b) Qualitative
 - c) Both
 - d) None

Q. 2 Answer the following questions. (30)

1. Case study – Design a research protocol for development of immunomodulating recipe from millets and nuts. **(Compulsory)**
2. Write about data – Definition, types with suitable example and describe various methods of data presentation.

OR

3. What is sampling? Write its types in detail with appropriate examples.

Q. 3 Write Short Note (Any 4) (20)

1. Variable – explain the term with appropriate example
2. In 3 fruit basket, there are Apple, Banana and Papaya, Apple is rich source of vitamin C, Potassium, Banana is rich source of vitamin C, Vitamin B 6 & Magnesium, Papaya is rich source of vitamin A, vitamin C & Potassium.
Present the above information/ data in tabular format.
3. Primary and secondary data – Describe the difference with appropriate example
4. Population
5. Review of literature – use and benefits.
6. Write a short note on –Measure of central tendency- types, definition with examples
