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MVP-009

**M. SC. IN FOOD SAFETY AND
QUALITY MANAGEMENT
(MSCFSQM)**

Term-End Examination

June, 2026

MVP-009 : RESEARCH METHODOLOGY

Time : 3 Hours

Maximum Marks : 100

Note : Answer any *five* questions. All questions
carry equal marks.

1. (a) Define the following terms (any *five*) :

5×2=10

(i) Cluster Sampling

- (ii) Mode
- (iii) Level of significance
- (iv) Snowball Sampling
- (v) Coefficient of variation
- (vi) Regression
- (vii) Randomization

(b) List the different classes of review of Literature. How do you write a review of literature ? 10

2. (a) What do you mean by variables ? Explain the different classes of variables. 10

(b) How do you test a hypothesis ? Explain when you should accept or reject a hypothesis with proper justification. 10

3. (a) Explain the classification of research design. 10
- (b) What is descriptive research ? List the characteristics of descriptive research. 10
4. (a) Explain the principles of experimental design. Describe any *one* experimental design in detail. 10
- (b) List the different steps of standardized test construction and explain any *two* of them. 10
5. (a) Classify the sampling techniques and explain non-probability sampling techniques. 10

- (b) The following data represents the annual income of 25 farmers in a district of Rajasthan. Construct the data into frequency distribution and represent it in tabular and chart form :

10

1.3	1.7	2.5	2.9	3.0
3.4	2.65	2.0	1.87	3.5
4.0	2.0	3.15	4.2	5.2
2.54	3.1	1.90	4.11	2.75
5.2	4.2	2.75	3.45	4.0

6. (a) Explain any *one* qualitative research technique and discuss its advantages and disadvantages. 10
- (b) Explain the copyright issues related to report writing. 10

7. Write notes on the following (any *four*) :

4×5=20

- (a) T-test
- (b) Measure of central tendency
- (c) Survey research
- (d) Secondary data sources
- (e) Sampling and non-sampling error

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