IIHMR DELHI | INTERNATIONAL INSTITUTE OF HEALTH MANAGEMENT RESEARCH

Fellow Program in Management

FPM (2024-2027 Batch)

First Semester End Examination

Course & Code	:	**Bio Statistics-FP 633**	**Reg. No.**	:	
Semester & Batch	:	**I, 2024-27**	**Date**	:	**25-02-2025**
Time & Duration	:	**02:00-05:00 p.m. (3 Hrs.)**	**Max. Marks**	:	**70**

Instructions:

- Budget your time as per the marks given for each question and write your answer accordingly.
- Scientific Calculator Allowed.

Part A [Attempt any five]: Short Notes: Q.1 to Q.5 (5 questions *6 Marks = 30 Marks)

1. What is dispersion? Why is the study of dispersion analysis required before doing large sample data? Justify with suitable example.
2. What is sampling? Describe the basis of probability and non-probability sampling in research?
3. What is measurement scale? Write the characteristic of types of measurement scale.

OR What is Binomial Distribution? List its property in terms of understanding the population parameter.

4. What is variance? Discuss its suitability in understanding the population distribution.

OR What is correlation? Define Spearman Rank Correlation with formula for tied rank.

5. What is hypothesis? Write the types of hypothesis testing?

Part B [Attempt any four]: Long Question: Q.6 to Q.10 (4 questions *10 Marks = 40 Marks)

6. What is stratified random sampling? How it is different from cluster sampling? Give importance of stratified and cluster sampling in research?
7. What is mean and median. Discuss merit and limitation of mean and median.
8. What is Path Analysis? Explain with its underlying assumptions.
9. What is regression. Explain Simple linear regression and Logistic regression.
10. What is ANOVA? Explain the statistics associated with ANOVA, its assumption and formula.