

NATIONAL INSTITUTE OF PUBLIC HEALTH TRAINING AND RESEARCH, MUMBAI
Post Graduate Diploma in Hospital Management (PGDHM) Batch: 2023-24
First Semester Examination – Mock Examination

PAPER–III

RESEARCH METHODOLOGY & INTRODUCTION TO STATISTICS

Date: 02/11/2023

Total Marks: 100

Time: 02:00 AM to 05:00 PM (03 Hours)

Credit: 4.0

Section: A) Research Methodology

Credit: 2.0 / Marks: 50

Q: 1) Descriptive Question (Attempt any two) 20 Marks

- a) Describe various types of study designs. Differentiate between cross-sectional and longitudinal studies?
- b) What are the different types of instruments used for data collection?
- c) Describe the various components of the research protocol in detail.

Q: 2) Write in Brief (Attempt any three) 15 Marks

- a) Describe the 'SMART' criteria for formulating the objective of the research study
- b) Records and Reports
- c) Write advantages and disadvantages of Qualitative studies
- d) Patient Opinion Poll
- e) Write in brief about Case Control Studies

Q: 3) Short Notes (Attempt any three) 15 Marks

- a) Experimental Studies
- b) Key Components of Research Questionnaire
- c) Types of data
- d) Sources of errors in measurement
- e) Randomization in Research Studies

Section: B) Introduction To Statistics

Credit: 2.0 / Marks: 50

Q: 1) Descriptive Question (Attempt any two) 20 Marks

- a) Enumerate various sampling techniques. Describe stratified sampling technique with example.
- b) What are the various tests of significance? Differentiate between the parametric and non-parametric tests with examples.
- c) Enumerate measures of central tendency. Describe in brief the methods of calculation and uses of the mean.

Q: 2) Write in Brief (Attempt any three) 15 Marks

- a) Describe the applicability of 't' test with examples.
- b) What is Bayes theorem? State various uses of Bayes theorem with examples.
- c) What are the various tests of significance? Describe the applicability of chi square test with examples.
- d) Describe types of sampling errors in research studies.
- e) What is frequency distribution curve?

Q: 3) Short Notes (Attempt any three) 15 Marks

- a) Difference between bar diagram and line diagram
- b) Uses of Mean, Median and Mode
- c) Skewed distribution
- d) 95% confidence interval
- e) Standard deviation

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