

Post Graduate Diploma in Hospital Management  
First semester exam- batch I -2021-22  
**Paper-III-Research Methodology & Introduction to Statistics**

Date : 10.03.2022

Total Marks :100

Time :11.00 to 2.00pm

**Section A Research Methodology**

**marks: 50**

**Credit:2**

**Q-1. Descriptive question (attempt any two out of three ) marks 20**

1. Describe briefly how will you conduct patient satisfaction survey in hospital setting
2. Distinguish between the qualitative & quantitative research approaches in detail
3. Briefly discuss the different types of tools of data collection used in public health research .

**Q.2. Write in brief ( attempt any 3 out of 5 ) marks 15**

1. Techniques for interview with advantages and disadvantages
2. Types of research designs
3. Process of analysis of data in hospital setting
4. Sensitivity and specificity
5. Testing of hypothesis

**Q-3. Short notes (attempt any 3 out of 5) marks 15**

- A) Difference between Qualitative and Quantitative research
- B) Health System Research Concept of WHO
- C) Focus Group Discussion
- D) Research Hypothesis
- E) Ethical Issues in Research

**Section B Introduction to Statistics**

**marks : 50**

**Credit :2**

**Q-1. Descriptive question (attempt any two out of three ) marks 20**

1. What is Sampling? Describe any two sampling methods in detail.
2. Compute the mean and standard deviation of the following frequency distribution

Data- point (X)	12	8	14	17	20	24	32
Frequency (F)	9	5	19	5	4	3	11

3. Define sensitivity and specificity of a diagnostic test. compute the values of specificity and sensitivity of diagnostic test using the following contingency table :

	Disease: True	Disease: False
Test positive	80	180
Test: Negative	720	20

**Q.2. Write in brief ( attempt any 3 out of 5 ) marks 15**

1. Measures of dispersion
2. Correlation coefficient (r)
3. Null and alternative hypothesis
4. Confounding factors
5. Bayes theorem

**Q-3. Short notes (attempt any 3 out of 5) Marks 15**

- A) Difference between Rates and Ratios with example
- B) Chi square test
- C) Normal and T distribution
- D) Type- II error
- E) Testing of Hypothesis