

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**I Semester M.H.A Degree Examination – 07-Jun-2024**

**Time: 3 Hours**

**Max. Marks: 100**

**HOSPITAL ADMINISTRATION**  
**Research Methodology, Quantitative Techniques and Business Statistics**  
**Paper-III - (RS-5)**  
**Q.P. CODE: 8732**

Your answers should be specific to the questions asked  
Draw neat, labeled diagrams wherever necessary

**Answer All The Questions**

**10 X 10 = 100 Marks**

1. What is a research proposal? Discuss the research problem, objectives and hypothesis as part of writing your research proposal
2. What do you mean by data? Discuss the types of data and data collection methods
3. Define sampling and elucidate different methods of sampling
4. How important is statistical analysis in research? Discuss the scope of descriptive and inferential statistics in research
5. Discuss measures of central tendency. Calculate the median for the data given below

Income group	Number of customer
15000-25000	64
25000-35000	56
35000-45000	72
45000-55000	42
55000 and above	36

6. What is the dispersion in statistics? Calculate the median for the data given below

Age in years	Number of students
11-12	3
12-13	6
13-14	20
15-16	42
17-18	48
19-20	30
20-21	5
21-22	3

7. What is operational research? Explain the Program Evaluation Review Technique (PERT) and the Critical Path Method (CPM) in operational management
8. What defines a normal distribution? Explicate the characteristics of a normal distribution
9. Explain the application of operation research hospital in administrations
10. What is pilot study? Explain

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