

**PAPER CODE: MPH5114**

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES**  
**TELANGANA STATE, WARANGAL – 506 002**

**MPH FIRST YEAR DEGREE EXAMINATIONS: JANUARY, 2024**

**BIOSTATISTICS DATA MANAGEMENT AND DEMOGRAPHY**

**Time: 3 Hours**

**Max Marks: 70**

**Note:** Answer all questions

Give Diagrammatic representation wherever necessary.

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**Write an essay on the following:**

**2 X 10 = 20**

1. What is data. Describe the measures of central tendency based on types of data and data presentation.
2. What is demography. Explain why an understanding of demography is essential in public health.

**Write short note on the following:**

**6 X 5 = 30**

3. Explain what is meant by descriptive and inferential statistics.
4. Describe any five measures of fertility.
5. A researcher collected the following data on hospital stay (days) of 11 patients having dengue. 5, 8, 5, 7, 4, 30, 8, 5, 7, 6, 4 Calculate and interpret an appropriate measure of central tendency and dispersion.
6. Difference between Case fatality rate and proportional mortality rate.
7. What is the purpose to calculate the sample size.
8. What is the relational database managements system. Explain with example.

**Write briefly on the following:**

**10 X 2 = 20**

9. Define the term 'total fertility rate'.
10. What is morbidity.
11. How do ordinal data differ from nominal data with a real example.
12. Explain MS Excel in brief.
13. What do you mean by cells in MS Excel sheet.
14. What do you mean by urbanization.
15. Explain conditional probability and where it is used in real scenario.
16. When do you use "countif" in MS Excel.
17. What is the use of log file in Stata.
18. What is the ODBC full form.

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