PAPER III - RESEARCH METHODS, STATISTICS & DEMOGRAPHY

DATE- 25/11/2022   **TIME:10 am – 1 pm**   **TOTAL MARKS: 100**

A. PART - I   **(60 Marks)**

Q-1 Compulsory to attempt (Each question carries 10 Marks)

(A) What is Sampling? What is need for sampling? Describe any two methods of sampling in detail.   (10marks)

(B) Enumerate various qualitative methods of data collection. Describe the In-depth interview?   (10marks)

Q-2. Attempt any two of the following: (Each question carries 10 Marks)

(A) What is the quantitative methods of data collection? Discuss the principles of constructing a questionnaire or interview schedule.   (10marks)

(B) What is Key informant interviews? When to use it? and discuss its advantages.   (10marks)

(C) The following table has shown the age distribution of cancer deaths in hospitals. Calculate Mean, Median, and Mode age.   (10marks)

Age (Yrs.)	15-24	25-34	35-44	45-54	55-64
Cancer deaths	15	20	25	30	10

Q-3. Attempt any two of the following (Each question is of 10 Marks)

(A) Differentiate between-
   i. Case-control study and Cohort study, ii. Incidence and prevalence.   (10marks)

(B) Discuss the important steps of conducting the research study.   (10marks)

(D) Define Evaluation? Explain the different types of Evaluation giving examples.   (10marks)

PART - II   **(40 marks)**

Q-4. Write Short Notes on (any 5)   **(8 Marks each)**

(a) Measures of morbidity
(b) Focus group discussion
(c) Correlation
(d) Null and alternative hypothesis
(e) Difference between Rates and Ratios with example
(f) Pre-test
(g) Graphical presentation of data
(h) Ethical Issues in Research