

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002****MD HOMOEOPATHY PART-I DEGREE SUPPLEMENTARY EXAMINATIONS:
NOVEMBER 2025****RESEARCH METHODOLOGY AND BIOSTATISTICS****Time: 3 Hours.****Max Marks: 100****Note:** Answer all questions.

Give Diagrammatic representation wherever necessary.

Write an essay on the following:**10 X 10 = 100**

1. Compare and contrast various Study Designs used in Medical Research.
2. Write short notes on:
 - a) Information bias b) Confidence interval
 - c) Ordinal data d) Range e) Purposive sampling
3. Describe various phases of Clinical Trials in general.
4. Enumerate Types & Sources of Data and exemplify each.
5. Explain basic principles of Ethics in Medical Research. Add a note on Helsinki Declaration.
6. Construct a Research Writing Proforma with all the requisite components in each Heading.
7. Following table represents ESR values of 80 Rheumatoid arthritis patients in speciality OPD. Identify the type of Data and Graphically (diagrammatically) represent it in best possible way,

ESR mm/ 1 st hr	Number of patients
20-30	16
30-40	30
40-50	24
50-60	10

8. What are the factors which determine the "Sample Size" estimation? Add a note on each one of them.
9. Following data represents haemoglobin levels (g/dl) of 35 patients, Calculate all possible Measures of Dispersion.
12,12,10,9,12,15,11,12,11,11,15,16,17,12,13,13,14,11,10,
9,9,8,13,14,12,14,15,13,13,10, 9, 13, 14, 13, 9.
10. Write short notes on:
 - a) Incidence rate b) Falsification
 - c) Conflict of interest d) Informed consent
 - e) Pilot study
