**MD (Hom.) Part I Degree Supplementary Examinations September 2023**

**Paper II - Research Methodology and Biostatistics**

# (2016 Scheme)

**(Common to all specialties)**

**Time: 3 Hrs**                                                          **Max. Marks: 100**

- *Answer all questions to the point neatly and legibly  • Do not leave any blank pages between answers  •  Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together  • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay:**                                                                               **(20)**

1. Describe in detail the general guidelines for drafting an ideal research project for submission to a funding agency.

**Short Essays**                                                              **(8x10=80)**

2. What is double blind clinical trial. Mention its advantages and disadvantages

3. Discuss application and uses of biostatistics as a science in medical research

4. Which research methodology is adapted for 'drug proving' in homoeopathy. Discuss

5. Differentiate between prospective and retrospective study with suitable example

6. Discuss type I and type II error

7. How does a cross-sectional study vary from longitudinal study

8. What is chi-square test. Discuss its application in clinical research

9. Find out the mean deviation of incubation period (in days) of measles of children, which are as 10, 9, 11, 7, 8, 9, 9.5

****************