

Reg. No.:.....

**First Year M Phil Clinical Epidemiology Regular Examinations  
November 2021**

**Paper I – Basic Research Methodology including Epidemiology, Biostatistics and  
Research Ethics**

**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*
- *Write Section A and Section B in separate answer books. Do not mix up questions from Section A and Section B*

**QP Code: 101531**

**Max marks:50**

**Section A: Basic Research Methodology Including Epidemiology and Research  
Ethics**

**Essays:**

**(5x10=50)**

1. Discuss simple and stratified randomization.
2. Discuss advantages and disadvantages of Cohort Study Design.
3. Who are subjects of “diminished autonomy”. What precautions have to be taken while recruiting them in research.
4. What are authorship Guidelines, according to ICMJE.
5. How will you compute incidence and prevalence. What are the differences between them

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**QP Code: 102531**

**Max marks:50**

**Section B: Biostatistics**

**Essays:**

**(5x10=50)**

1. Difference between systematic error and random error.
2. Explain null hypothesis and how is it determined.
3. What is the power of the test and how is it calculated.
4. Give the situations where non-parametric tests are preferred to parametric tests.
5. Uses of student's 't' test.

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