



**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**

**(Deemed to be University under Section 3 of the UGC Act, 1956)**

**Pre – Ph.D. Written Examination – November – 2021**

**PHYSIOTHERAPY**

**Paper I: Research Methodology**

Time: 1 ½ Hours

Marks: 50

**PART – A**

**(5\*1= 5)**

**Write Brief notes about the following**

Answer all questions

All questions carry equal marks

1. Define population
2. Peak flow meter
3. What are the 5 attribution categories for adverse events in clinical trials?
4. Define Data
5. What are the 3 types of research misconduct?

**PART – B**

**(5\*3=15)**

**Write Short answers to the following**

Answer all questions choosing either a or b

All questions carry equal marks

1. a. Research report – layout  
**Or**  
b. Research metrics
2. a. Surface electrodes –types. State advantages and disadvantages.  
**Or**  
b. Needle electrodes–types. State advantages and disadvantages.
3. a. Grading of adverse events  
**Or**  
b. What are ethical issues? Name different ethical issues.



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4. a. Nominal scale

**Or**

b. Ordinal scale

5. a. Redundant publication

**Or**

b. Selective reporting and misrepresentation of data.

**PART – C**

**(3\*10=30)**

Answer any three essay type questions

All questions carry equal marks

1. Explain the significance of research reports and narrate the various steps involved in writing such a report
2. Describe in detail about electromyography. Add a note on the different types of electrodes used in EMG biofeedback.
3. Explain in detail about the biosafety and bioequivalence studies
4. Define central tendency. Explain about the measures of central tendency in detail.
5. Dealing publication misconduct

