



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

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

Pre – Ph.D. Written Examination – January – 2023

Physiotherapy

Paper I: Research Methodology

Time: 2 Hours

Marks: 50

PART –A

(5*2M= 10M)

Write Brief notes about the following

Answer all questions

All questions carry equal marks

1. Types of Research.
2. Define goniometry.
3. Procedure of clinical trials.
4. List of methods of data collection.
5. Scientific misconducts.

PART – B

(5*4M=20M)

Write Short answers to the following

Answer all questions choosing either a or b

All questions carry equal marks

1. a. What is research? and list out its objectives and motivation.
Or
b. What is the criteria for good research?
2. a. Explain physical fitness tests.
Or
b. Hand grip dynamometer
3. a. Procedure and record of clinical trials.
Or
b. Rules and responsibility of clinical trials.



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4. a. List the method used in finding scientific articles in biostatistics and explain with an example.

Or

- b. Explain with an example about outline of SPSS and Mathematica.

5. a. Explain in detail about redundant publications and its types.

Or

- b. Discuss in detail about violation of publication ethics, authorship and contributorship.

PART – C

(2*10M=20M)

Answer any two essay type questions

All questions carry equal marks

1. Explain the technique involved in defining the problem?
2. Explain what is isokinetic machine, its benefits, risks, program and safety tips in detail.
3. What are biosafety and equivalence studies?
4. What is analysis of variance (ANOVA) and its uses.
5. List the activities which violate the publication ethics.

