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(University of Choice)

**MASINDEMULIROUNIVERSITY OF
SCIENCE AND TECHNOLOGY (MMUST)**

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

SECOND YEAR TRIMESTER ONE EXAMINATIONS

FOR THE DEGREE

OF

BACHELOR OF HPE/PHYSIOTHERAPY/CLINICAL MEDICINE

COURSE CODE: HPE 208

COURSE TITLE: INTRODUCTION TO RESEARCH METHODS

DATE: THURSDAY 21ST APRIL 2022 TIME: 8:00-11:00 AM

Instructions to Candidates

Answer All Questions

Section A: Multiple Choice Questions (MCQ)

20 Marks.

Section B: Short Answer Questions (SAQ)

40 Marks.

Section C: Long Answer Question (LAQ)

40 Marks

TIME: 3 Hours

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SECTION A MULTIPLE CHOICE QUESTIONS (20 marks)

- Which of the following will give more “accurate” representation of the population from which the sample has been taken?
 - A large sample based on convenience sampling technique
 - A small sample based on simple random sampling
 - A large sample based on simple random sampling
 - A small cluster sampling
- Research in which the researcher uses both qualitative and quantitative research within a stage or across two of the stages in the research process is known as _____.
 - Basic research
 - Quantitative research
 - Mixed method research
 - Mixed model research
- Which of the following is not a form of nonrandom sampling?
 - Snowball sampling
 - Convenience sampling
 - Quota sampling
 - Purposive sampling
- What general type of research is focused on collecting information to help the researcher to advance ideology or political position?
 - Evolution research
 - Basic Research
 - Action research
 - Orientation research
- Which form of reasoning is the process of drawing a specific conclusion from a set of premises?
 - Rationalism
 - Deductive reasoning
 - Inductive reasoning
 - Probabilistic
- The opposite of a variable is;
 - An extraneous variable
 - Dependent variable
 - Constant
 - A data set
- Which of the following includes examples of quantitative variables?
 - Age, temperature, income, height
 - grade point average, anxiety level, reading performance
 - gender, religion, ethnic group

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- D. both a and b
8. Which research occurs when the researcher manipulates the independent variable?
- A. Causal-comparative research
 - B. Ethnographic research
 - C. Experimental research
 - D. Correlational research
9. Research that is done to understand an event from the past is known as;
- A. Historical research
 - B. Replication
 - C. Archival research
 - D. Experimental research
10. A set of elements taken from a larger population according to certain rules is termed as.
- A. Population
 - B. Statistic
 - C. Element
 - D. Sample
11. Diagnostic research studies aims to;
- A. Achieve new insights of a concept.
 - B. Analyze characteristics of something.
 - C. Determine the frequency with which something occurs.
 - D. Test the relationship between variables.
12. Research can be classified from these perspectives
- A. Application, objectives and inquiry mode used.
 - B. Philosophies, validity and unbiased.
 - C. Controlled, systematic and empirical.
 - D. Rigorous, valid and critical.
13. Which scale is the highest form of measurement?
- A. Nominal
 - B. Ordinal
 - C. Interval
 - D. Ratio
14. The Introduction section of the research plan
- A. Gives an overview of prior relevant studies
 - B. Contains a statement of the purpose of the study
 - C. Concludes with a statement of the research questions for quantitative research and research hypothesis
 - D. All of the above
15. A variable that is presumed to cause a change in another variable is called a (n):
- A. Categorical variable
 - B. Dependent variable
 - C. Independent variable
 - D. Intervening variable
16. In an experimental design, the dependent variable is:
- A. The one that is not manipulated and in which any changes are observed

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- B. The one that is manipulated in order to observe any effects on the other
- C. A measure of the extent to which personal values affect research
- D. An ambiguous concept whose meaning depends on how it is defined
17. Diagnostic research studies is a category of research that aims to
- E. Achieve new insights of a concept.
 - F. Analyze characteristics of something.
 - G. Determine the frequency with which something occurs.
 - H. Test the relationship between variables.
18. Data presentation in research is done with the help of the following;
- A. Tables
 - B. Bar graphs
 - C. Pie charts
 - D. All the above
- Q19. Research objectives involves;
- A. Planning to get answers for what, why & where type of questions.
 - B. Considering the logic behind the methods we use in the context of the research.
 - C. Formulate concepts and planning for research methods.
 - D. Exploratory, descriptive, diagnostic and experimental research.
- Q20. Research can be classified from;
- E. Application, objectives and inquiry mode used.
 - F. Philosophies, validity and unbiased.
 - G. Controlled, systematic and empirical.
 - H. Rigorous, valid and critical.

SECTION B SHORT ANSWER QUESTIONS (SAQ) 40 MARKS

- Q1. Define the following concepts (2 marks) each.
- a) Research
 - b) Hypothesis
 - c) Census
 - d) Sampling
 - e) Stratified sampling
- Q2. Explain objectives of research (10 marks)
- Q3. Describe the measurement scales used in research (10 marks)
- Q4. Differentiate between dependent and independent variables (10 marks)

SECTION C LONG ANSWER QUESTIONS (LAQ) 40 MARKS

- Q3. What motivate individuals to conduct research? (20 marks)
- Q4. Describe the process followed while research is being conducted (20 marks)

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