

(UNIVERSITY OF CHOICE)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS
2014/2015 ACADEMIC YEAR
SECOND YEAR, FIRST TRIMESTER EXAMINATIONS
FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN HEALTH PROFESSIONS
EDUCATION

COURSE CODE:

HPE 208

COURSE TITLE:

INTROCUCTION TO RESEARCH I

DATE: Monday 15th December 2014

TIME: 9.00 AM-

12.00PM

INSTRUCTIONS TO CANDIDATES

ANSWER ALL QUESTIONS

SEC A: MULTIPLE CHOICE QUESTIONS (MCQ) 20 MARKS SEC B: SHORT ANSWER QUESTIONS (SAQ) (40 MARKS) SEC C: LONG ANSWER QUESTIONS (LAQ) (40 MARKS)

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over.

Section A: Multiple Choice Questions (MCQ)

- 1. A study that generates knowledge which directly influence clinical practice is:
 - a. Basic research
 - b. Applied research
 - c. Qualitative research
 - d. Prospective research
- 2. A framework means:
 - e. The conceptual underpinning of a study
 - f. Concepts at very high levels of abstraction
 - g. Integrated set of concepts that present a view of phenomena.
 - h. Symbolic representation of concepts or variables
- 3. Which of the following is an outcome variable?
 - a. Independent
 - b. Extraneous
 - c. Dependent
 - d. Causal
- 4. A statement outlining the reasons for carrying out a study is;
 - a. Purpose
 - b. Rationale
 - c. Objective
 - d. Significance
- 5. Indicate whether the following statements are True or False
 - a. External validity is the extent to which the effects detected in the study are a true reflection of reality.
 - b. Content validity is the extent to which the measure adequately the various dimensions of a concept under investigation.
- 6. Research that describes the lived experience is:
 - a. Grounded theory
 - b. Phenomenology
 - c. Historical
 - d. Ethnography
- 7. A symbolic representation of concepts or variables and their interrelationships refers to;
 - a. Model
 - b. Framework
 - c. Construct
 - d. Theory
- 8. Ex post facto/correlation study means;
 - a. Phenomena in the study is linked to the phenomena that occurred in the past
 - b. Study is conducted after variations in independent variable have occurred
 - c. Investigating what might in future
 - d. Data are collected at more than one point in time
- 9. A sampling method that uses groups rather that individuals is referred to as

- a. Stratified
- b. Systematic
- c. Cluster
- d. Network
- 10. A study in which data collection is done both before and after the intervention is;
 - a. Factorial
 - b. Cross-over design
 - c. Pre-test-post test
 - d. Randomized- block design
- 11. The measurement scale with an absolute zero point is;
 - a. Nominal
 - b. Ordinal
 - c. Interval
 - d. Ratio
- 12. The extent to which the effects detected in the study are a true reflection of reality refers to:
 - a. External validity
 - b. Internal validity
 - c. Content validity
 - d. Face validity
- 13. A variable that that provides a link between the independent and dependent variables is;
 - a. Intervening
 - b. Confounding
 - c. Extraneous
 - d. Antecedent
- 14. The following are measures of variability;
 - a. Range, standard deviation
 - b. Range, median
 - c. Mode, median
 - d. Mode, mean
- 15. The following are examples of inferential statistics;
 - a. Standard deviation, variance
 - b. Correlation, regression
 - c. Variance, Range
 - d. T-test, standard deviation
- 16. Indicate whether the following statements are True or False
 - a. Research questions are interrogative statements rather than declarative.
 - b. Qualitative research is used to test theories
 - c. The sample in qualitative research is large
 - d. Life histories are narrative self-disclosures about individual life experiences
- 17. Match items in column A to statements in column B

Column A

i. A process by which specifics are inferred from general principles

- ii. Specifies not only the existence but the direction of a relationship
- iii. System of organizing concepts
- iv. Building theories

Column B

- A. Directional hypothesis
- B. Information gathered
- C. Deductive reasoning
- D. Inductive reasoning
- E. Qualitative research
- F. Quantitative research
- G. Theory
- H. Concepts
- 18. Descriptive study designs include:
- a. Prevalence and incidence studies
- b. Prospective and retrospective studies
- c. Time series and pre-test post-test studies
- d. Randomized clinical trials and Solomon four designs
- 19. An experimental study in which there is manipulation of more than one independent variable:
- a. Pre-test -post-test
- b. Factorial
- c. Cross-over design
- d. Solomon four group design

Section B: Short Answer Questions (40 marks)

- 1. State five purposes of research (5 marks)
- 2. State five factors that contribute to errors in research(5 marks)
- 3. Explain three major ethical issues in research (6 marks)
- 4. State five sources of data in health professions (5 marks)
- 5. State three ethical responsibilities of a researcher during research (3 marks)
- 6. Outline three strengths and three limitations of experimental research (6 marks)
- 7. State five ways of ensuring credibility in qualitative research (5marks)
- 8. State five disadvantages of using a questionnaire for data collection (5marks)

Section C: Long Answer Questions (40 marks)

- 1. Describe the differences between qualitative and quantitative researches (20 marks)
- 2. Discuss the components of research methodology (20 marks)