

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2017/2018

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR DEGREE OF MASTER OF SCIENCE IN COMMUNITY NUTRITION AND DEVELOPMENT

CITY CAMPUS

PCN 815: RESEARCH METHODOLOGY

Date:1st February, 2018

Time: 9.00 - 12.00pm

INSTRUCTIONS:

Follow the instructions as attached



INSTRUCTIONS:

- This paper is made up of three (3) sections, A, B, and C
- Section A has 10 marks and is composed of Multiple Choice Questions (MCQs)
- Section B has 10 marks and is composed of Short Answer Questions (SAQs)
- Section C has 40 marks and is composed of Long Answer Questions (LAQs)
- Answer ALL questions in sections A and B in the spaces provided in the question paper
- Answer any TWO (2) questions in section C (each question = 20 marks) in the answer booklet provided.

ANSWER SHEET FOR MCQ QUESTIONS

REG. NO		.1 88
COURSE CODE AND TITLE		7
SECTION	9	

	a	b	c	d	e
1.		4			
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2. 3. 4. 5. 6.					
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7					
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8. 9. 10.			9		
10.					

SECTION A

ANSWER ALL QUESTIONS IN THIS SECTION

Choose the correct answer(s) that apply to each of the following questions (10 Marks)

MCQ1. Which of the following is the research that is done to examine the findings of someone else using the "same variables but different people"?

- A. Exploration
- B. Hypothesis
- C. Replication
- D. Empiricism
- E. None of the above

MCQ2	is the idea that knowledge comes from	om experience.

- A. Rationalism
- B. Deductive reasoning
- C. Logic
- D. Empiricism
- E. None of the above

MCQ3. Which scientific method focuses on <u>testing</u> hypotheses developed from theories?

- A. Deductive method
- B. Inductive method
- C. Hypothesis method
- D. Pattern method
- E. All of the above

MCQ4. A condition or characteristic that can take on different values or categories is called

- A. A constant
- B. A variable

	C. A cause-and-effect relationship D. A descriptive relationship E. None of the above	p.	
MCQ we va	5. Ethics is the set of principles and glue.	guidelines that help us to up	phold the things
, p = 1	A. True		
	B. False		** ±
· ·	C. Partly true	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* * *
	D. Partly false		
	E. None of the above		
	6. Which of the following generally (cted in the field?A. Getting informed consentB. Keeping participants from phy		tative studies
		Sical narm	
1	C. Maintaining consent forms	h :	X
	D. Having full anonymity rather to E. None of the above	nan just confidentiality	
	E. None of the above		
	7. Systematic error is associated with: A. Reliability B. Validity C. Confidence Interval D. Confidence level E. None of the above		nple size?
	A. Cluster sampling		
	B. Simple random sampling		
	C. Systematic sampling		
	D. Proportional stratified sampling		
	E. All of the above		-
MCQ9	 Attrition generally occurs in research A. You do demographic research B. The study fails C. Some participants do not compl D. The study is very brief 	N	
	E. None of the above	× × *	
MCQ10	 The use of multiple observers to all are that the investigators agree with where A. Interpretive validity B. Researcher bias 	low cross-checking of obse hat took place is known as	ervations to
. 14	3	œ	o_

- C. Multiple operationalism
- D. Investigator triangulation
- E. None of the above

SECTION B

ANSWER ALL QUESTIONS IN THIS SECTION (TOTAL=10 MARKS)

- SAQ11. (a) Distinguish between a null hypothesis and alternative hypothesis using illustrations where necessary. (2 marks)
- (b) Identify TWO (2) types of errors in hypothesis testing and state their relevance in decision making on test statistics. (2 marks)
 - (c) Symbolically represent null and alternative hypotheses. (2 marks)
- SAQ12. a) Compare and contrast between a review article and a research article. (2 marks)
 - b) Provide distinguishing descriptions for *latent variables*, *observed variable* and *moderating variables*. (2 marks)

SECTION C (40 MARKS)

Answer question one (1) and any other one (1) question in this section (20 marks each)

LAQ13. A nutrition student was asked to set up an experiment to determine the effect of caffeine on anxiety level of students in high school. The student decided to divide the high school students into two groups and each student was assigned to each group at random. Both groups were followed for a period of 1 month and information on anxiety levels taken on daily basis.

(20)

a. What type of study design is described above?

(1 mark)

- b. Identify TWO (2) validity issues the student would consider important for the study. (2 marks)
- c. Describe FOUR (4) threats for each of the validity issues identified in (b) (8 marks)

(4 marks)

d. Outline the five errors likely to be associated with the study design described above. (5 marks)

- e. Explain what other alternative design the student could use to study the effect. (2 marks)
- LAQ14. Discuss exhaustively FIVE (5) steps you would follow to design a good structured questionnaire. (20 marks)
- LAQ15. Discuss FIVE (5) basic ethical principles for researches involving human participants, giving relevant example. (20 marks)