



# MACHAKOS UNIVERSITY

University Examinations 2019/2020 Academic year

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

THIRD YEAR SPECIAL /SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN POPULATION HEALTH.

PPH 300: RESEARCH METHODS IN POPULATION HEALTH

DATE: 22/01/2021

TIME: 8.30-10.30 AM

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## INSTRUCTIONS

### SECTION A

#### Specific Instructions

- This section has one question
- This question is **COMPULSORY**
- The question is 30 Marks\

#### QUESTION ONE (30 MARKS)

- a) Define the following words as used in research methodology
- i. Sample (1 mark)
  - ii. Research (1 mark)
  - iii. Hypothesis (1 marks)
- b) Highlight items contained in the budget for a research proposal (3 marks)
- c) Outline the disadvantages of using interview as a data collection instrument (3 marks)
- d) Identify various referencing techniques (3 marks)
- e) Outline different forms of presenting collected and analyzed data (3 marks)
- f) Identify three characteristics of cross sectional study design (3 marks)
- g) Highlight the importance of pretesting research instruments (3 marks)
- h) Explain the use of research in the society today (3 marks)
- i) State reason why recommendation is an important part of any research (3 marks)
- j) Identify three important contents of a proposal abstract (3 marks)

## **SECTION B:**

### **Specific Instructions**

- **This section has four (4) question**
- **Answer any two (2) questions**
- **Each question is 20 Marks**

### **QUESTION TWO (20 MARKS)**

- a) Use the following research title to answer the question below; “influence of education level on use of contraceptives among women of reproductive age (15-45 years) in Machakos County”
- Define the exclusion criteria of the target population in the above study (3 marks)
  - Identify three field logistics for the above the study (3 marks)
  - Formulate three objectives for the above study (3 marks)
  - Describe three steps used in formulation of the above study title (3 marks)
  - State a null hypothesis for the above study (3 marks)
- b) Explain five characteristics of the above stated a research objective (Qns 2, ii) (5 marks)

### **QUESTION THREE (20 MARKS)**

- a) Classify research in five types based on different purposes (10 marks)
- b) As a student in research methodology discuss the challenges encountered when writing literature review of a research proposal (10 marks)

### **QUESTION FOUR (20 MARKS)**

- a) Using a suitable examples discuss a feature in research that varies, or changes within a study (10 marks)
- b) Advice Mr. Musau on various sources of ideas for search of research topics in health sciences (10 marks)

### **QUESTION FIVE (20 MARKS)**

- a) Discuss the various elements covered by the introduction or background of a study (10 marks)
- b) Explain five contents of an informed consent in research (10 marks)