



# MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR

BACHELOR OF SCIENCE IN POPULATION HEALTH

PPH 300: RESEARCH METHODS IN POPULATION HEALTH

DATE: 23/4/2019

TIME: 8:30 – 10:30 AM

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## INSTRUCTIONS:

This paper consists of two sections A and B

### SECTION A (COMPULSORY)

- This section has one question
- The question is compulsory
- The question is 30 marks

### QUESTION ONE (30 MARKS)

- a) Define the following words as used in research methods (3 marks)
- i) Study variables
  - ii) Pre-field logistics
  - iii) Hypothesis
- b) Highlight the items that make up the appendices of a research proposal (3 marks)
- c) Outline three (3) disadvantages of using a questionnaire as a data collection on instrument (3 marks)
- d) Highlight three (3) examples of non-probability sampling (3 marks)

- e) Use the following research title to answer the question below; “Economic factors and use of contraceptives among women of reproductive age (15-45 years) in Machakos County”
- i) Identify the exclusion criteria of the target population in the above study (3 marks)
  - ii) Explain three (3) field logistics for the above the study (3 marks)
  - iii) Formulate three objectives for the above study (3 marks)
  - iv) Highlight the subtopic to be reviewed for the above study (3 marks)
  - v) State a null hypothesis for the above study (1 mark)
  - vi) Identify the dependent and independent variables for the above study (3 marks)
- f) ‘How corrupt Kenyan are, daily nation 23<sup>rd</sup> February 2019 page 7 and 8 by Johnson Muendo’. Re write the above reference as it will appear in the reference list (3 marks)

**SECTION B:**

- **This Section Has Four (4) Questions**
- **Answer Any Two (2) Questions**
- **Each Question is 20 Marks)**

**QUESTION TWO (20 MARKS)**

- a) Thomas a scientist is confused on which research design to use for his study, explain five research designs you can recommend. (10 marks)
- b) Discuss the methods used in acquiring knowledge and the truth about the world without following any systematic process of collecting and analyzing information. (10 marks)

**QUESTION THREE (20 MARKS)**

- a) Prepare a marking scheme for a research project supervisor for the background statement of a research proposal. (10 marks)
- b) Describe five steps in carrying out literature review of a study (10 marks)

**QUESTION FOUR (20 MARKS)**

- a) Explain why a researcher would prefer interviews in data collection (10 marks)
- b) Describe the procedure in conducting a test-re test research tool reliability (10 marks)

**QUESTION FIVE (20 MARKS)**

- a) Discuss types of probability sampling (10 marks)
- b) Jane is a respondent to a certain research study in Machakos County. Explain the contents of the informed consent of a research which she could have signed (10 marks)