



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

SECOND YEAR SPECIAL/SUPPLEMENTARY FOR

BACHELOR OF SCIENCE IN PUBLIC HEALTH

PPH 300: RESEARCH METHODS IN POPULATION HEALTH

DATE: 30/7/2019

TIME: 8.30-10.30 AM

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 methods (3 marks)
- i) Sample
 - ii) Research
 - iii) hypothesis
- b) Highlight three items contained in the budget for a research proposal (3 marks)
- c) Outline three disadvantages of using an interview as a data collection instrument (3 marks)
- d) Identify three referencing techniques (3 marks)
- e) Outline three secondary data sources for literature review (3 marks)
- f) Identify three characteristics of cross sectional study (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) Highlight three characteristics of a good proposal (3 marks)
- j) Identify three important items contained in 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; “education level and use of contraceptives among women of reproductive age (15-45 years) in Machakos County”
- i) Define the exclusion criteria of the target population in the above study (3 marks)
 - ii) Identify three field logistics for the above the study (3 marks)
 - iii) Formulate three objectives for the above study (3 marks)
 - iv) Describe three steps used in formulation of the above study title (3 marks)
 - v) State a null hypothesis for the above study (3 marks)
- b) Explain five characteristics of the above stated research objectives (Question 2, ii) (5 marks)

QUESTION THREE (20 MARKS)

- a) Explain the coverage of background statement of a research proposal (10 marks)
- b) Describe five steps in selection of a topic area for research (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain advantages and disadvantages of case control studies (10 marks)
- b) Discuss the sources of research ideas (10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss five types of probability sampling (10 marks)
- b) Explain five contents of an informed consent of research (10 marks)