



W1-2-60-1-6

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN EPIDEMIOLOGY**

**TPH 3116: HEALTH SYSTEMS RESEARCH**

**DATE: FEBRUARY, 2020**

**TIME: 3 HOURS**

**INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS**

**1 QUESTION ONE**

- a) Identify any two major purposes that Health Systems Research (HSR) seeks to serve (4Marks)
- b) With appropriate examples, outline the key features of Health Systems Research that distinguishes it from any type of health research (15Marks)
- c) In using health systems research to influence decision making, identify the strategies that can be used to maximise the impact of research on policy (6Marks)

**2 QUESTION TWO**

Develop a one-page idea of proposal concept you intend to use for your MSc research. It should include the following basic elements (25 marks)

- a) Who (are you studying/ study population) with an inclusion and exclusion criteria
- b) What (What is the problem that you seek to address in your research)
- c) SMART Objectives (at least three)
- d) Where (are you doing the study/ setting including justification for the study site)
- e) Why (why are you doing the study and what will be the contribution of your findings)
- f) How (do you intend to conduct the study/ Methodology)

**3 QUESTION THREE**

- a) Describe why analyzing the problem is a very crucial step in designing the research (4 marks)
- b) A key step in analyzing the problem includes identifying and writing down the core problem(s) as defined and brainstorm on possible causes or factors contributing to the problem. Using the topic "Causes of maternal mortality in Kenya" develop a problem analysis diagram (21 marks).

**4 QUESTION FOUR**

- a) The first major section in a research proposal is the 'statement of the problem'. It is the foundation for the further development of the proposal, makes it easier to find information and reports of similar studies and enables one to systematically point out why the proposed research should be undertaken. Describe the basic information to include in the statement of the problem (5 marks)
- b) In Health Systems Research, ideally, each topic that is proposed for research is judged according to certain guidelines or criteria. Discuss the guidelines or criteria that can help in selecting a research topic. (20 marks)

**5 QUESTION FIVE**

A work plan and study budget are key components in a research proposal implementation.

- a) Develop a summarised 12-month study work plan for a study topic of your choice, including the key elements that should go into a work plan (12 marks)
- b) Develop a summarised one million budget limit for the activities and implementation costs for the work plan developed above, incorporating the key elements that should go into a standard budget (13 marks)

**6 QUESTION SIX**

- a) Describe why SMART research objectives are relevant when developing a Health Systems Research proposal (6 marks)
- b) Describe the relevance of Literature review in a research proposal (10 marks)
- c) Identify some of the strategies that can be used to enhance Literature review when developing a HSR proposal (9 marks)