****

**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF SPATIAL PLANNING**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS IN SPATIAL PLANNING**

**SEMESTER 2016/2017 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

**COURSE CODE: PES 3327**

**COURSE TITLE: PLANNING FOR HEALTH SERVICES**

**EXAM VENUE: STREAM: SPATIAL PLANNING**

**DATE: EXAM SESSION:**

**TIME: 2 HOURS**

**Instructions:**

1. **Answer question 1 ( compulsory ) and ANY other 2 questions.**
2. **Candidates are advised not to write on the question paper.**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**QUESTION ONE**

a.) Discuss the following factors in relation to the planning for health services:-

i.) Demography. (3 marks)

ii.) Target area. (3 marks)

iii.) Doctor patient ratio. (3 marks)

iv.) Health budget. (3 marks)

v.) Target population’s education level. (3 marks)

b.) Explain how researches on diseases affect how planners consider projections when planning for health facilities. (10 marks)

c.) Discuss what leads to the cyclic emergence of diseases like meningitis. (5 marks)

**QUESTION TWO**

a.) Malaria remains the single biggest killer in Africa. As a health service planner explain the measures that need to be put in place to reverse that trend. (10 marks)

b.) Discuss the relevance of disease mapping in the planning process for health services.

(10 marks)

**QUESTION THREE**

a.) Ben and Reuben have discussed at length analytical and quantitative modeling of diseases incidence and distribution. Discuss their points. (10 marks)

b.) Johnson Ogwenohas been complaining about the interference of vested interests in his recommendations for the eradication of malaria in Africa. Explain some of his complaints.

(10 marks)

**QUESTION FOUR**

a.) AlegoNdege, a consultant for World Health Organization on tropical diseases has requested you to help him develop a document on sustainable financing of future universal health care in Bondo County. Discuss the points you gave him. (10 marks)

b.) Explain five innovative vector based interventions that may be recommended by medical planners in the fight against diseases in Africa. (10 marks)

**QUESTION FIVE**

a.) Health financing remains one of the biggest challenges for planners.Discuss (10 marks)

b.) Explain the challenges posed by super bugs to modern health planners. (10 marks)