



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELLOR OF SCIENCE

COMMUNITY HEALTH AND DEVELOPMENT /PUBLIC HEALTH

3RD YEAR 1ST SEMESTER 2015/2016 ACADEMIC YEAR

KISII LEARNING CENTRE - PART TIME

COURSE CODE: PSP 3314

COURSE TITLE: SPATIAL DATA ANALYSIS IN PLANNING

EXAM VENUE: LR 17

STREAM: BSc. COM.HEALTH /PH

DATE: 19/12/16

EXAM SESSION: 9.00 -11.00 AM

TIME: 2.00 HOURS

Instructions:

- 1. Answer question ONE (COMPULSORY) in Section A and ANY other 2 questions in Section B.**
- 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.**

SECTION A

Question one (30mks compulsory)

- a) State any three benefits of decision support system (**DSS**) (3mks)
- b) Outline three components of a decision support system (3mks)
- c) Differentiate the following taxonomy for the decision support system (**DSS**):
 - i. Passive (3mks)
 - ii. Active (3mks)
 - iii. Cooperative (3mks)
- d) Give three advantages of medical alert monitoring system (3mks)
- e) State three relevance of health information exchange to our health sector (3mks)
- f) Outline any three ways in which **GIS** has supported our public health sector (3mks)
- g) Give three roles of **ArchGIS**. (3mks)

SECTION B

QUESTION TWO (20MKS)

- a) Briefly outline three typical information that a decision support system application might gather and present. (6mks)
- b) The early framework of Decision Support System (DSS) consists of four phases, discuss. (14mks)

QUESTION THREE (20mks)

Critically discuss five eras of management information (MIS) evolution. (20mks)

QUESTION FOUR (20MKS)

- a) Give four roles of public health information network (PHIN) (4MKS)
- b) Explain four goals of Electronic Health Records (HER) (16mks)

QUESTION FIVE (20MKS)

Discuss any four roles of GIS in facilities management (20mks)

