# KENYA POLYTECHNIC UNIVERSITY COLLEGE

## SCHOOL OF HEALTH SCIENCES AND TECHNOLOGY

### DEPARTMENT OF COMMUNITY AND PUBLIC HEALTH

### DIPLOMA IN COMMUNITY AND PUBLIC HEALTH

### END OF STAGE 2 EXAMINATION

### NOVEMBER 2011

# HEALTH INFORMATICS

### TIME 2 HOURS

**Instructions to candidates**
This paper consists of two sections A and B
Section A is compulsory – Answer **ALL** questions in this section
Answer any **THREE** questions from section B

## SECTION A
Answer ALL questions in this section

1. Explain the following terms
    a) Entity
    b) Hardware
    c) Data
    d) Database
    e) GIS                                                      (10 Marks).

2. Explain any FIVE importance of 'organizing' as a function of management
                                                               (10 Marks)

3. Using a well labeled diagram illustrate the levels of management and the activities at each level.                                   (10 Marks)

4. Explain the THREE types of information systems           (10 Marks)


## SECTION B
## Attempt any THREE questions in this section

5. Management Information System (MIS) may vary according to the type of the Institution. Discuss the structure of MIS that can be used in a hospital setting
                                                               (20 Marks)

6. a)  Discuss the advantages and  disadvantages of a database system
                                                               (10 Marks)

   b) Explain the components of a database system             (10 Marks)


7. Discuss travelers diarrhea                                 (20 Marks)

8. As a public health worker, your friend is traveling to a foreign land
 a) Explain to him about Telemedicine                         (2 Marks)

 b) Advice him about the necessary public health precautions he should observe before traveling.                                       (18 Marks)