

**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

**This paper consists of 2 printed pages**

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## **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)