



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**

**THIRD YEAR EXAMINATION FOR THE AWARD OF THE**  
**DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH**  
**SECOND SEMESTER 2022/2023**  
**[MAY-AUGUST, 2023]**

**PHES 303: HEALTH INFORMATION SYSTEMS AND GIS**

**STREAM: Y3S2**

**TIME: 2 HOURS**

**DAY: WEDNESDAY, 2:00 – 5:00 PM**

**DATE: 02/08/2023**

**INSTRUCTIONS**

***1. Do not write anything on this question paper.***

**SECTION A ANSWER ALL QUESTIONS 40 MARKS**

1. State two ways of patient identification management **4 marks**
2. State five (5) characteristics of a good health information **5 marks**
3. State the differences between health information management and health information profession **4marks**
4. Name and explain four(4) challenges that emerged after the establishment of health information exchange (HIE) **4 marks**
5. Name four (4)health information standards **4 marks**
6. Nationwide Health Information Network (NwHIN) was established in the USA with principles for governance. State five (5) of these principles **5 marks**
7. Health information professionals are supposed to take lead in health information exchange by providing support and guidance. Briefly state five (5) areas of support and guidance. **5 marks**

8.State five (5) ways geographical information system is useful in healthcare  
**5 marks**

9. State four (4) reasons for health information exchange in healthcare  
**4 marks**

**SECTION B ANSWER ANY TWO QUESTIONS 30 MARKS**

1. Describe health information system components giving practical examples **15 marks**
2. Describe the benefits of health information systems standards.**15 marks**
3. Describe the application GIS in public health practice **15 marks**