



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE
IN HEALTH INFORMATION MANAGEMENT**

**PHI 808: HEALTH INFORMATION SYSTEMS TECHNOLOGY,
APPLICATION AND SECURITY**

DATE: FRIDAY 24TH NOVEMBER 2017

TIME: 9.00 A.M. – 12.00 P.M.

INSTRUCTIONS

- 1. This paper consists 5 (five questions)**
 - 2. Answer Question ONE (Compulsory) and Any THREE from Questions 2 – 5.**
 - 3. Question 1 is 50 marks and Questions 2 – 5 - 30 marks each**
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1. You are the chief health information officer in a large university hospital. The hospital is struggling to realign its operations in order to improve quality of health care being provided. The head of management believes the only way to improve services is to implement enterprise resource planning (ERP) system.
 - a) Discuss how the ERP system is likely to improve the quality of care and competitive age of the hospital (15 marks)
 - b) Develop criteria that you may use to select an ERP system (15 marks)
 - c) Discuss strategy that you may use to implement the ERP system to ensure its success (20 marks)
 2. Discuss which component deserves the most attention in today's HIT environment and why. (30 marks)
 3. Appraise various forms of telemedicine to illustrate their appropriateness in healthcare delivery. (30 marks)
 4. Discuss the standard necessary for hospital wide implementation of electronic medical records (30 marks)
 5. Discuss data integrity and security issues that are likely to be encountered when implementing wireless notepads for the physicians and staff to make changes directly to a patient's health records. (30 marks)