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**INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY  
HIGHER LEVEL  
PAPER 3**

Friday 21 May 2010 (morning)

1 hour

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**INSTRUCTIONS TO CANDIDATES**

- Do not turn over this examination paper until instructed to do so.
- Read the case study carefully.
- Answer all the questions.

Answer **all** the questions.

Refer to the Healthcare in an East African country case study and to your own related research in responding to the following questions.

1. The image below was taken using the CT scanner at Oobunta Hospital and it is stored on a server at the hospital.



[Source: [www.flickr.com/photos/clintjcl/225605585](http://www.flickr.com/photos/clintjcl/225605585), 16 January 2009]

Describe the steps that a doctor in Village A’s clinic must take in order to access this image.

[4 marks]

2. (a) Compare the use of the IT facilities at Village A’s clinic and the cell (mobile) phone technologies at Village C’s clinic in providing medical services.

[6 marks]

(b) Examine why Dr Ogola would prefer doctors to use a medical expert system rather than an online search engine to diagnose patients.

[8 marks]

3. The management at Oobunta Hospital is considering the purchase of an electronic medical record (EMR) management system.

Using information from the case study and your independent research, discuss the considerations that need to be taken into account by the hospital management when it makes decisions in choosing an EMR solution and the choice of suppliers.

[12 marks]