



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

Monday 19 November 2007 (morning)

1 hour

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 *Cell Phones in a Global Society* case study and to your own related research in responding to the following questions.

1. (a) Define the term *encryption*. [2 marks]
 - (b) Explain how the capabilities built into cell phones are replacing the need for users to purchase other digital devices. [4 marks]
 2. (a) Describe IT methods that can be used to collect information from cell phone users without their knowledge. [4 marks]
 - (b) Explain how the location of a cell phone user can be determined. [4 marks]
 - (c) It is important that the cell base stations be located so that cell phone users are automatically transferred between the cells. Explain considerations that must be incorporated into the placement of cell base stations in order to facilitate this transfer. [4 marks]
 3. There has been concern expressed that the use of cell phones and other mobile technologies has blurred the distinction between home and work. Evaluate this statement with reference to the case study and your own research. [12 marks]
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