IBO	IB DIPLOMA PROGRAMME
	PROGRAMME DU DIPLÔME DU BI
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88065511

INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY
HIGHER LEVEL AND STANDARD LEVEL
PAPER 1

Monday 13 November 2006 (afternoon)

1 hour

Candidate session number

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INSTRUCTIONS TO CANDIDATES

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Answer all the questions in the spaces provided.

1.   By 2006, many airlines will have replaced paper tickets with e–tickets. Passengers purchase e-tickets using an online computer booking system. Information technology resources can be used to track passengers and their luggage and ensure that they get on the correct planes.

(a)   Identify **two** different data items that will be requested from a customer by the online computer booking system.   *[2 marks]*

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(b)   Describe **one** advantage and **one** disadvantage *to the passenger* of using e–tickets instead of paper tickets.   *[4 marks]*

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(This question continues on the following page)

(Question 1 continued)

(c)   It is important, for security reasons, that no plane is allowed to leave until all passengers whose luggage has been loaded have boarded the plane. Discuss how the use of e–tickets can be used alongside bar coded luggage labels to assist the process of baggage checking. *[4 marks]*

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Turn over

2.   The World Wide Web (WWW) has allowed the exchange of information on a scale never before seen in human history. However, searching for information on the WWW can be a confusing and time–consuming process.

(a)   Explain why a user might use two or more search engines when searching for information on the World Wide Web.   *[2 marks]*

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(b)   When a search engine is used to locate information, certain web sites appear near the top of the search listings. Give **two** explanations for the appearance of certain web sites near the top of search listings.   *[4 marks]*

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(This question continues on the following page)

(Question 2 continued)

(c)   Globalization means the diminishing importance of geographic, political, economic
        and cultural boundaries. Discuss how the World Wide Web has contributed to the
        globalization process.   *[4 marks]*

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3. Online and printed newspapers are now available from many news services.

(a) Describe **one** way that a publisher can make the news available in the printed version also available online. *[2 marks]*

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(b) The availability of online news could decrease the amount of money that a publisher makes from publishing the newspaper. Describe **two** ways that profitability can be maintained when online news services are provided. *[4 marks]*

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(Question 3 continued)

    (c)   Discuss how the widespread availability of online news resources might have an impact on the production of student assignments. *[4 marks]*

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Turn over

4. A sports club is surveying its membership by questionnaire and will store the results of the survey in a computer database.

(a) Identify the field type suitable for storing:

    (i) last name
    (ii) telephone number. *[2 marks]*

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(b) Describe **two** ways in which data from the questionnaires can be entered into the database. *[4 marks]*

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(Question 4 continued)

(c)   Data from this database may be distributed to third parties.   Discuss why the members might be concerned about this. *[4 marks]*

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