



22135515



International Baccalaureate®
Baccalauréat International
Bachillerato Internacional

INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY
HIGHER LEVEL
PAPER 3

Candidate session number

0	0							
---	---	--	--	--	--	--	--	--

Wednesday 15 May 2013 (morning)

Examination code

2	2	1	3	-	5	5	1	5
---	---	---	---	---	---	---	---	---

1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Read the case study carefully.
- Answer all questions in the boxes provided.
- The maximum mark for this examination paper is [30 marks].



0108

8 pages

© International Baccalaureate Organization 2013

Answer **all** the questions in the boxes provided.

Refer to the Red Dragon Taxi Company case study **and** to your own related research in responding to the following questions.

1. (a) If the main communication system used by *Red Dragon Taxi Company* between the control centre and the taxis fails, other means of communication need to be available.

Identify **two** possible backup communication methods that could be used.

[2]

.....
.....
.....
.....

- (b) State **two** items of information that could be displayed on the control centre map when a mouse is placed over a taxi icon on the system interface (*lines 51–54*).

[2]

.....
.....
.....
.....



2. The new data management system will collect large amounts of data about journeys, drivers, passenger movements, bookings and taxi performance and maintenance. Explain **three** ways this data can be used by *Red Dragon Taxi Company* to improve the operations of the company. [6]



0308

Turn over

3. *Red Dragon Taxi Company* is investigating the suitability of different companies to provide a reliable new communication and booking management system. With reference to your research, discuss what criteria could be used to evaluate the various providers and their proposed solutions. [8]



0408



0508

Turn over

Your response to question 4 must include evidence of independent research linked to the Red Dragon Taxi Company case study.

4. *Red Dragon Taxi Company* requires that all taxis under their control are fitted with location and activity monitoring systems. This decision has divided the opinion of the drivers. With reference to the different monitoring systems that you have studied, evaluate this decision. [12]





0708

Turn over



0808