

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

June 2006

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 70

SYLLABUS/COMPONENT : 0418/02

INFORMATION TECHNOLOGY

Printout of the second e-mail prepared and ready to send to autoresponder-

| | |
|---|---------------|
| <i>Check send to address: design.h@cie.org.uk</i> | <i>1 Mark</i> |
| <i>Check subject line ICTCOREX</i> | <i>1 Mark</i> |
| <i>Check for attachment present SCA6MANU.TXT</i> | <i>1 Mark</i> |

If candidate has attached file SCA6AFAS.CSV instead of SCA6MANU.TXT then allow this

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|---|
| From ARF <i>Information found using Search Engine and File saved 1 mark</i> |
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<Candidate Name>

Header
Name top left 1 mark
Date top right 1 mark
Consistent placement on pages 1 mark
Do not penalise if not aligned exactly to the margin

<Today's Date>

All margins 3.5 cm 1 mark
Allow for paper feed inconsistencies with printers – (the line length must be between 22.5 and 23 cm)
A4 page size 1 mark
Landscape page orientation 1 mark

Phase 3 for Quattichem

Heading
Centre aligned 1 mark
100% correct 1 mark
24 point 1 mark
Underlined 1 mark
Different font to body text 1 mark

In recent days, Quattichem have decided that the scope of our contract relating to the location of their new manufacturing plant should be changed. The search location has been amended to include the shortlisted countries in Africa and several potential host countries in their Asia region. This means that the latest shortlist of thirty seven countries identified by Quattichem must be investigated as part of this contract. I have in the last 10 minutes received an e-mail which contains brief details of another three countries that they would like to be added to the existing list. These are Azerbaijan, Kazakhstan and Laos. A revised data file which will contain the initial details of all these countries will be collated and available for use by the end of today.

Please note that the following countries are the prime suppliers of the bulk dry materials used in the manufacturing processes:

- Thailand
- Indonesia
- South Africa
- Switzerland

Bullet points Present 1 mark
Indented at least 2 cm 1 mark
Accept provided that start of text indented by at least 2 cm from margin

Page break inserted here 1 mark

Footer
Automated page numbers 1 mark
consistently – bottom right 1 mark

<Candidate Name>

<Today's Date>

Most of these materials will be transported in bulk powder form, so it is essential that good transport links are established or can be established without prohibitive costs. The contract has been extended to include the requirement for approximate costs to be shown, particularly in relation to the enhancement of the transport network in the area as well as an overall budget for the design and construction of the site. Please add a 30% contingency cost to all projected budgets before they are submitted as part of the report.

Recent developments internationally which have banned the use of single hulled oil tankers in some regions of the world must be taken into account. The plant's requirement for heavy crude oil, with an approximate consumption of 6000 barrels a day, will mean that a port taking only the most modern supertankers must be on site or available locally, if the region selected does not have this type of oil locally produced.

Please ensure that the other primary location factors, that is political stability, availability of water and good transport links are also given high priority. Another factor is that a remote location is required, at least 12 kilometres away from any centres of population. We must ensure that we evaluate the physical geography of the location, existing transportation links and the potential for new transportation links, climate, political structures and stability, as well as the other requirements mentioned above. Please identify any potential problems with selecting this location, even if they have not been identified in any of the notes within this document or from the briefing meeting. This will probably be the most critical factor in your report. It must be on a relatively flat area of land in excess of 60000 hectares which must not contain a habitat for any protected species of flora or fauna. Approximately 20000 hectares of the site will be set aside to allow this water to cool back to the natural ambient temperature, before it is returned to the locality.

| | | |
|------------------|----------------------------------|---------------|
| Body text | Left aligned | 1 mark |
| | 10 point | 1 mark |
| | 1.5 line spacing | 1 mark |
| | Applied to all paragraphs | 1 mark |

<Candidate Name>

<Today's Date>

The new contract also requires us to produce some draft marketing strategies using the environmental aspects. They believe that in a changing global economy, consumers are prepared to pay a little extra to ensure that natural resources are preserved and natural habitats are protected. As Quattichem use large quantities of oil and other resources, there would appear to be a conflict of interests here and they are keen to try and persuade the consumers of their wide range of products of their 'green' credentials.

In light of the changes to the contact, the team has been enlarged. Safraz has been seconded to the team for the next week and will lead the work on the environmental preservation. The existing teams working under David will continue to collect and collate all the relevant information about all countries on the latest list. Sofia's team will initially focus on those countries where annual Imports are greater than 10 AND less than 300 and with a population of less than 3,000,000. The starting point for this team will be the following countries:

Sofia's team will ensure that all potential sites within these countries have been investigated by Tuesday's briefing meeting. By this stage David's team should have all the geographical data on these countries collated and presented, especially those relating to earth movements, earthquakes and any volcanic activity. I appreciate that for some team members it will involve working in unfamiliar areas, but it is essential that we have several options that can be developed into in-depth studies prior to the final deadline on the 15th. New team allocations will be:

Page orientation portrait
All fields fully visible
1 mark
1 mark

Heading as shown at the top
Does not have to be in the header and any alignment is acceptable
Heading must be 100% correct
1 mark

Asia Region

| Country | Region | Population | Density | Energy | Imports | Exports |
|-------------|--------|------------|---------|--------|---------|---------|
| Afghanistan | Asia | 23 | 35 | 0.04 | 19 | 6 |
| Azerbaijan | Asia | 7.7 | 89 | 2.6 | 105 | 86 |
| Cambodia | Asia | 10.5 | 59 | 0.02 | 43 | 24 |
| Iran | Asia | 69.5 | 42 | 1.88 | 537 | 348 |
| Iraq | Asia | 22.5 | 51 | 1.76 | 278 | 383 |
| Kazakhstan | Asia | 17 | 6 | 5.93 | 40 | 70 |
| Kyrgyzstan | Asia | 4.7 | 24 | 0.76 | 71 | 76 |
| Laos | Asia | 5.2 | 23 | 0.04 | 40 | 20 |
| Mongolia | Asia | 2.5 | 2 | 1.55 | 158 | 208 |

Sorted in ascending order on
'Country'
2 marks

Search
Region = 'Asia'
2 marks

Check data entry of 3 records for Azerbaijan,
Kazakhstan & Laos
Must be 100% accurate
Data entered as specified
1 mark per record
3 marks

Name bottom right of report
Does not have to be at bottom of the page
Position of name
1 mark

<Candidate name>

Heading as shown at the top
Does not have to be in the header, any alignment is acceptable
Heading must be 100% correct
Ignore case for last three words
1 mark

Low density and few imports

Only these 4 fields selected
Can be any order or layout
4 fields fully visible
1 mark

| Density | Country | Region | Imports |
|---------|--------------------------|--------|---------|
| 8 | Niger | Africa | 37 |
| 6 | Kazakhstan | Asia | 40 |
| 5 | Central African Republic | Africa | 54 |
| | | | 37 |

Sorted in descending order on 'Density'
Sort
2 marks

Search for Density <10 AND Imports <60
Check these 3 records
Search
2 marks

<Candidate name>

<Candidates Name>

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<Date>

Name bottom left of report
Does not have to be at bottom of the page
Position of name **1 mark**

Calculated Field
Minimum Imports Calculated. Does not require a label
Calculated control correct. **2 marks**
Position of calculated control below imports column **1 mark**

Phase 3 for Quattichem



In recent days, Quattichem have decided that the scope of our contract relating to the location of their new manufacturing plant should be changed. The search location has been amended to include the shortlisted countries in Africa and several potential host countries in their 'Asia' region. This means that the latest shortlist of

Image of any building inserted 1 mark
 It may contain construction, planning, tools etc
Placement top left of page 1 mark
Scaling 1 mark
 Graphic area no more than 40% of printed page and no less than 15% of page
 Orientation of graphic not important
 Alignment must be +/- 5 mm from text
Text must wrap around all the image 1 mark

countries that they would like to be added to the existing list. These are Azerbaijan, Kazakhstan and Laos. A revised data file which will contain the initial details of all these countries will be collated and available for use by the end of today.

Please note that the following countries are the prime suppliers of the bulk dry materials used in the manufacturing processes:

- Thailand
- Indonesia
- South Africa
- Switzerland

Page orientation portrait 1 mark
All margins 2 cm 1 mark
 Allow for paper feed inconsistencies with printers – the line length must be 17 cm

Page break removed 1 mark

Most of these materials will be transported in bulk powder form, so it is essential that good transport links are established or can be established without prohibitive costs. The contract has been extended to include the requirement for approximate costs to be shown, particularly in relation to the enhancement of the transport network in the area as well as an overall budget for the design and construction of the site. Please show the cost to all projected budgets before they are included in the report.

Body text
Text fully justified 1 mark
12 point 1 mark
Single line spacing 1 mark
Applied to all paragraphs 1 mark

Recent developments internationally which have banned the use of single hulled oil tankers in some regions of the world must be taken into account. The plant's requirement for heavy crude oil, with an approximate consumption of 6000 barrels a day, will mean that a port taking only the most modern supertankers must be on

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<Today's Date>

site or available locally, if the region selected does not have this type of oil locally produced.

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Database extract placed here
Format of the extract is not important
Placing of extract in relation to text within margins 5 mm tolerance 1 mark

Only these 4 fields selected 1 mark
All data and labels visible 1 mark
Can be arranged in any order or layout

| Country | Region | Population | Imports |
|---------------|--------|------------|---------|
| Mongolia | Asia | 2.5 | 158 |
| Congo | Africa | 2.7 | 259 |
| Guinea-Bissau | Africa | 1.2 | 66 |

Searching for
10< Imports <300 AND population <3 Search 3

Sofia's team will ensure that all potential sites within these countries have been investigated by Tuesday's briefing meeting. By this stage David's team should have all the geographical data on these countries collated and p

Footer Automated page numbers moved to centre 1 mark
Do not penalise if within centre third of page

<Candidate Name>

<Today's Date>

relating to earth movements, earthquakes and any volcanic activity. I appreciate that for some people it may be difficult to have working in unfamiliar areas, but there are several options that can be developed prior to the final deadline on the 15th.

Table inserted in correct place 1 mark
100% accuracy in data entry 1 mark
Any alignment acceptable
5 rows and 3 columns 1 mark

| | | |
|----------|---------|--------|
| David | Sofia | Safraz |
| Anne | Akiko | Kelvin |
| Cammilla | William | Jamal |
| Li | Jo | |
| Michelle | Gunther | |

No widows or orphans 1 mark
No split lists or tables 1 mark
Document complete and spell checked with paragraphing intact 1 mark