

MARK SCHEME for the October/November 2006 question paper

0418 INFORMATION TECHNOLOGY

0418/02 Paper 2, maximum raw mark 70

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2006 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



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

<i>Check send to address: <u>design.h@cie.org.uk</u></i>	<i>1 mark</i>
<i>Check subject line ICTCOREX</i>	<i>1 mark</i>
<i>Check for attachment present SCB6MOB.TXT</i>	<i>1 mark</i>

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

Candidate x

Header
Name top centre
Consistent placement on pages
Do not penalise if not aligned exactly centred

1 mark
1 mark

All margins 2 cm
Allow for paper feed inconsistencies with printers – (the line length must be between 25.5 and 26 cm)
A4 page size
Landscape page orientation

1 mark
1 mark

Phoney Phones research notes

...nt consumer profiles has given us some very interesting results. The younger elements of the potential customer base have clearly identified four areas that they consider make the difference between a good phone and the others. These are:

- games
- music
- sports
- camera

Heading

Centre aligned
100% correct
14 point
Underlined
Different font to body text

1 mark
1 mark
1 mark
1 mark
1 mark

Bullet points Present
Indented at least 2 cm
Accept if start of text indented by 2cm from margin

1 mark
1 mark

In order to identify the key factors which could form the basis of our campaign, we must review these areas. In terms of games, there appear to be two distinct types of player. There is the game addict who will sit for hours magically attracted to the mobile to the exclusion of everything else. The other type of games player is the casual user who wants to kill some time, perhaps on the journey home. The mobile phone now allows users to download and play a range of fantastic games anywhere, at any time. The music element allows the user to download the latest ring tones to their phone, from a variety of sources like websites, MTV or Musiwave. Other downloads in this category are voicemail greetings and messages from pop stars, bands and other celebrities. Depending on the service provider, most mobile phones will provide results, news and gossip from top sporting fixtures around the world. The camera now seems to be firmly embedded into the latest mobile phones, allowing pictures to be taken and sent instantly to friends or family from anywhere in the world. These can be sent to computers. The technology is also available to

Footer
Automated page numbers – left
Date bottom right
Consistent placement on pages
Do not penalise if not aligned exactly to the margin

1 mark
1 mark
1 mark

Candidate x

download hundreds of images and animations from a variety of picture galleries, ranging in content from celebrity sightings to funny cartoons.

Research of the mobile phones currently on the market offers us additional information that can be used in the planning of the advertising campaign. The team needs to be fully aware of the latest updates in the technology and the terminology in use. Picture messaging refers to the ability to send, receive and forward messages, including images, text and sound. The image quality of colour screens varies according to the number of colours built into the screen. The current fascination with ring tones is to have polymorphic ring tones. This means that the phone can play more than a single note at a time. Java is the programming language that enables many of today's mobiles to play the games. GRPS gives the user the always on internet connection which means fast WAP access. This allows the user to access many internet based services. Most of the currently favoured mobiles have speed dial, which means that numbers can be dialled at a single touch. Bluetooth technology allows the mobile user to share data with a computer or to talk hands free without using any connecting wires.

Page break inserted here **1 mark**

Candidate x

Cost is a critical factor for many customers. The table below shows some sample costs from two of the network providers:

The differences in these costs make it difficult to select a network service provider. If our client advertised some method of simplifying these charges, perhaps in conjunction with a provider, they would be likely to increase their business instantly.

Another method of promoting specific phones might be to identify up to three manufacturers like these and promote their products:

All of these manufacturers have expressed a keen interest to try and create a joint advertising campaign with our client. We will need to do further investigation into a closer working relationship with each of these organisations and then work with our client to try and negotiate a joint campaign. It is likely that in the end we will need to be careful in their dealings with these companies, and all staff must be careful in their dealings with these companies. They will still be providing goods and services to our clients long after this advertising campaign has been completed.

There are several accessories that have been found as potential lead items for the campaign. Nokia have recently introduced a new wireless headset using bluetooth technology. This gives the user hands-free control of their mobile without cables and wires. The earpiece fits inconspicuously in either ear and could make an ideal Christmas promotion. Nokia have also developed a streamlined music stand which may also attract attention from younger consumers. It allows the phone to charge

Body text
Fully justified
12 point
1.5 line spacing
Applied to all paragraphs

1 mark
1 mark
1 mark
1 mark

Candidate x

whilst making calls, and can take external devices like a compact disk player or an MP3 player. Those phone users who have already bought a colour phone before the boom in photo messaging may be pleased to see a lightweight digital camera headset that will plug into 5 different models of Nokia phone. The advent of video capture and playback is also worthy of further consideration.

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

Nokia phones in stock

ID	Make	Model	Weight	Length	Width	Height	Talk time	Standby time	Display
51	Nokia	8310	84	97	43	17	135	350	Mono
15	Nokia	6310	111	129	47	19	180	480	Mono
27	Nokia	6310i	111	129	47	21	240	408	Mono
5	Nokia	7650	154	114	56	26	240	150	Colour
18	Nokia	3410	114	115	49	23	250	260	Mono
23	Nokia	3310	133	113	48	22	260	270	Mono
52	Nokia	6210	114	130	47	17	270	260	Mono
12	Nokia	3330	133	113	48	22	270	260	Mono
37	Nokia	6250	174	142	58	27	350	330	Mono
50	Nokia	9210	244	158	56	27	600	230	Mono

Search
Make = 'Nokia'
2 marks

Sorted in ascending order on
'Talk time'
2 marks

Check data entry of 3 records for Nokia
Must be 100% accurate
Data entered as specified
3 marks
1 mark per record

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

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

Search for Height <22 AND Display = Colour
Check these 3 records
Search
2 marks

Thin colour phone

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

Make	Model	Weight	Height
Sagem	myX-5	92	20
Philips	Fisio 820	85	21
Ericsson	T68	84	20

Sorted in descending order on 'Make'
Sort
2 marks

Average

87

Calculated Field
Average weight calculated. Does not require a label
Calculated control correct.
2 marks
Position of calculated control below weight column
1 mark

Candidate x

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

Candidate x

Header **Name moved to left** **1 mark**
Do not penalise if not aligned exactly to the margin

Phoney Phones research notes

Page orientation portrait **1 mark**
All margins 3 cm **1 mark**
Allow for paper feed inconsistencies with printers – the line length must be 14.75 and 15.25 cm

The younger elements of the potential customer base have clearly identified four areas that they consider make the difference between a good phone and the others. These are:

- games
- music
- sports
- camera

In order to identify the key factors which could form the basis of our campaign, we must review these areas. In terms of games, there appear to be two distinct types of player. There is the game addict who will sit for hours magically attracted to the mobile to the exclusion of everything else. The other type of games player is the casual user who wants to kill some time, perhaps on the job or at home. The mobile phone now allows users to download and play a range of fantastic games anywhere, at any time. The music element allows the user to download the latest ring tones to their phone, websites, MTV or Musiwave. Other downloads include voicemail greetings and messages from celebrities. Depending on the service will provide results, news and gossip around the world. The camera now seen on the latest mobile phones, allowing pictures to be sent to friends or family from anywhere in the world. Other picture messaging mobiles or to be used to send pictures. It is also available to download hundreds of images and animations from a variety of picture galleries, ranging in content from celebrity sightings to funny cartoons.



Research of the mobile phones currently on the market offers us additional information that can be used in the planning of the advertising campaign. The team needs to be fully aware of the latest updates in the technology and the terminology in use. Picture messaging is a popular feature, allowing users to send and forward messages, including text, images and sounds. The image quality of colour screens varies, with some phones having a resolution of 65,000 colours built into the screen. The current trend for mobile phones is to have polymorphic ring tones. This means that the phone can play more than a single note at a time. Java is the programming language that enables many of today's mobiles to play the games. GRPS gives the user the always on internet connection which means fast WAP access. This allows the user to access many internet based services. Most of the currently favoured mobiles have speed dial, which means that numbers can be dialled at a single touch. Bluetooth technology allows the mobile user to share

Image of any phone(s) inserted **1 mark**
It may contain a phone or any constituent part
Placed top right corner 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 margin and top of text
Text must wrap around all the image **1 mark**

Body text
Text left aligned **1 mark**
10 point **1 mark**
Single line spacing **1 mark**
Applied to all paragraphs **1 mark**

Candidate x

Page break removed 1 mark

data with a computer or to talk hands free without connecting wires.

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

Cost is a critical factor for many customers. The table below shows some sample costs from two of the network providers:

Charges	Provider A	Provider B
Text	12p per message	5p per message
Mobile to mobile	20p	40p
Answerphone	10p	15p
WAP	10p	6p

The differences in these costs make it difficult to select a network service provider. If our client advertise these charges, perhaps in conjunction with likely to increase their business instantly.

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

Another method of promoting specific phones might be to identify up to three manufacturers like these and promote their products:

Make	Model	Talk time	Standby time
Alcatel	One Touch 501	270	220
Philips	Fisio 311	270	320
Philips	Fisio 820	330	400
Sendo	D800	180	300
Sendo	P200	390	360
Sendo	S230	210	360

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

All of these manufacturers have expressed interest to create a joint advertising campaign with our client. We do further investigation into a closer working relationship of these organisations and then meet with our client to try and negotiate a joint campaign. It is likely that in the end we will select only one of the three, and all staff must be careful in their dealings with these companies to promise nothing, as they will still be providing goods and services to our clients long after this advertising campaign has been completed.

Searching for Alcatel, Philips or Sendo 2 marks
Sorted ascending on Make 2 marks
Search

There are several accessories that have been found as potential lead items for the campaign. Nokia have recently introduced a new wireless headset using bluetooth technology. This gives the user hands-free control of their mobile without cables and wires. The earpiece fits inconspicuously in either ear and could make an ideal Christmas promotion. Nokia have also developed a streamlined music stand which may also attract attention from younger consumers. It allows the phone to charge whilst making calls, and can take external devices like a compact disk player or an MP3 player. Those phone users who have already bought a colour phone before the boom in photo messaging may be pleased to see a lightweight digital camera headset that will plug into 5 different models of Nokia phone. The advent of video capture and playback is also worthy of further consideration.

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