Date of Examination: Tuesday, 13 January 2015 (p.m.)

Date of Examiners' Conference: N/A

Final Date for Return of Scripts: Monday, 9 February 2015
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
<th>Max mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(a)</td>
<td><strong>One mark for each for each correct answer</strong>&lt;br&gt;Word Art&lt;br&gt;ClipArt / picture / image&lt;br&gt;Bold Font&lt;br&gt;Italic Font&lt;br&gt;(<strong>NOT</strong> bold, italic or font by itself) Accept Bold text / italic text BUT <strong>NOT</strong> text by itself)&lt;br&gt;<strong>NOT</strong> Different fonts&lt;br&gt;Underlined&lt;br&gt;Centre text&lt;br&gt;Border art (<strong>NOT</strong> Borders on its own)&lt;br&gt;Font size / text size&lt;br&gt;Bullet points&lt;br&gt;Table&lt;br&gt;Watermark&lt;br&gt;Tabs and indents&lt;br&gt;Line spacing&lt;br&gt;Colour (Background or text) Only allow one&lt;br&gt;Condone Grammar Check&lt;br&gt;Accept any reasonable DTP feature</td>
<td>4</td>
</tr>
<tr>
<td>1(b)</td>
<td><strong>Spellcheck / spellchecker</strong></td>
<td>1</td>
</tr>
</tbody>
</table>
2(a) **One mark for:**
Idea of better quality pictures/photographs
e.g. more clearly defined photos / if blown up to a large size won’t be as blurred / clearer images

2(b) **Tablet B**
It has more storage space / it has a memory capacity of 32GB
Allow second correct answer if first is incorrect.

2(c) **WiFi (802.11)**
Tethering
Broadband
GPRS/3G/4G
Wired connection

**No brand names (FaceTime, Skype etc.)**

2(d) **One mark for each of two uses from:**
Can select / plan the shortest route from A-Z / real time guidance of route
Can share position with others
Can see bird’s eye view of your house
Can be found by others if lost / in an emergency
Can track / be tracked / locates where you are
Can find places of interest / petrol stations, etc.
Can locate exactly where your photos have been taken
Locate your tablet
Can locate weather for your particular area / Can predict weather more accurately
Online mapping / look at maps
Walking tours

Any reasonable answer

3(i) 2 Retina scanning
3 Fingerprint scanning

If 3 boxes ticked, only accept one correct answer
If all boxes ticked, no marks

3(ii) **Advantages (Any two)**
Unique to each student / No-one else can register for you
Cannot forget like a card / cannot lose a finger as you can a swipe card
Real time registration / know immediately where pupils are / can track pupils
Frees up teacher time
Less human error

**NOT** faster to register on its own

**Disadvantage**
Expensive to install
Privacy issues / DPA
Hygiene issues
Faulty equipment causes delays (e.g. dirty camera)
Calibration / Time consuming to collect biometric data from people
Training for staff and students

4(a) **Any three of the following:**
Contact details (generic answer, which precludes anything else related to contact details)
Address / Postcode
Telephone number / mobile number

Title
Cost
<table>
<thead>
<tr>
<th>Method of payment / credit or debit card details</th>
<th>Discount code / concessions</th>
<th>Login details</th>
<th>Time of film</th>
<th>VIP seats/ choose seats</th>
<th>Number of seats / number of tickets</th>
<th>Disabled access</th>
<th>Any reasonable answer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

| 4(b) | 2 | 3 | 5 | 8 | |

| 4(c) | **Two marks for advantages to customer:**<br> *Do NOT accept anything which could be done by phone*<br> A voids double booking<br> Can book 24/7<br> Can choose seat<br> Compare prices to get best deal<br> Easier for disabled who don’t have to leave home to book / can see if disabled seats are available<br> Read online reviews before booking<br> Watch trailers online<br> Can check availability before booking<br> Save on travel costs (must be qualified) e.g. of going to the cinema to book<br> Save travel time (must be qualified) e.g. rather than going to the cinema to book<br> On-line discounts<br> Can select alternative showings<br> E-tickets<br> **NOT just ‘easier to book’**<br> **NOT just ‘faster to book’**<br> **NOT saves time queuing**<br> **One mark for disadvantage to customer:**<br> Entering credit card/debit card details might not be safe / fake site / hacking<br> No personal service / less face to face interaction<br> Entering incorrect details and booking the wrong film<br> Not everyone has the Internet/ debit card to be able to book the tickets online<br> Prevents booking of seats if it leaves one isolated, unbooked seat on its own<br> Certain discounts cannot be used online (don’t allow if given for advantages)<br> **NOT Booking fee** |
|------------------------------------------------|----------------------------|--------------|-------------|------------------------|-------------------------------|----------------|----------------------|
|                                                 |                            |              |             |                        |                               |                |                      |

| 5(a) | To uniquely identify the player / to make each record unique / unique identifier | 1 |
| 5(b) | Smith F / F Smith | 1 |
| 5(c) | 2 | 1 |
| 5(d) | Autonumber / Number / Integer  
Date  
Boolean / Yes/No | 2 |
| 5(e) | Any two of the following:  
Password protection to stop unauthorised access  
Password protocols – changing passwords regularly / don’t write down passwords / not using easily guessable passwords  
Access rights – read only / read/write / create records / delete records  
Saved off site – saved in a fire proof safe.  
Physical security – lock doors, biometrics, security guards,  
Firewall – Prevents accessing data  
Antivirus – Prevents malicious programs from damaging data  
Encryption – Makes intercepted data unreadable  
Regular saving of the database  
NOT Printing a paper copy, NOT saving to a USB | 2 |
| 5(f) | Student ID – Presence check, Type check (integer) NOT Length  
Name – Type check (string), Presence check  
Gender – Type check (character), Drop down list, Look Up method, Presence check  
Year – Range check, Presence check, Type check  
Position – Type check (string), Presence check, Drop down list, Look Up method  
Date First Played – Range check, Presence check, Format check, Date Picker  
Plays For County – Type check (Boolean), Drop down list, Look Up method, Presence check  
Must specifically name the validation method. | 2 |
| 6(a) | Any three of the following:  
The Internet  
CD Roms / DVDs / Electronic encyclopedias  
Databases  
Bulletin boards  
Emailing an expert  
VLE / Intranet  
Weather / Global warming apps  
E-books  
Podcast | 3 |
| 6(b) (i) | 1,2,6 | 3 |
| 6(b) (ii) | Any three of the following:  
Adjust window size  
Mouse settings - speed, cursor shape and colour  
Screen resolution  
Desktop fonts / colour / size  
Change Background / background colour / background image  
Positioning items / placing icons  
Contrast  
Brightness  
Volume / Sound / Speech  
On-screen help  
Folder operations- move / copy / delete  
Task bar customisation  
Password protection  
Widgets / Gadgets  
Onscreen keyboard | 3 |
### NOT
- Creating shortcuts
- Renaming folders
- Data logging
- Videoconferencing
- Creating autoshapes
- Adjusting icon size

6(c)(i)  2 x 2

| 6(c)(i) |  
|---------------------------------|---------------------------------|
| Automatic marking - Giving instant feedback | 
| Games to teach maths | 
| Video tutorials/ videos showing a science experiment | 
| Audio tutorials/ sound - in music to hear the notes | 
| Simulations/demonstrations of weather patterns | 
| Animation to show different aspects of design | 
| Email/ chat room/blogs/forums Communication between teachers and students - discussion | 
| Interactive quiz/tests - ICT revision / History revision / See progress in a French topic | 
| Walkthrough - online papers | 

6(c)(ii)  1

| 6(c)(ii) |  
|---------------------------------|---------------------------------|
| Advantage (1 mark) | 
| Individualised learning – tailor own work pattern | 
| Students can work at own pace - pause and play | 
| Can access from any device with Internet anywhere | 
| Learning can take place at any time learn 24/7 | 
| Can be done away from school/distance learning – at home | 
| Teacher does not have to be there/they provide extra support when the teacher is not available | 
| Wide variety of online resources can be used | 
| Keep students interested/ More interactive than pen and paper/variety of multimedia formats can be used(sound/video/animation) | 
| Self-assessment / Immediate results/ feedback/ Analyse/view where you went wrong | 
| Frees up teachers time | 
| Don’t have to incur extra costs of extra tuition outside school | 
| Not as embarrassing if they get it wrong/improves confidence | 

7(a)  1

7(b) Absolute  1

If more than one box is ticked – no marks

7(c) C  1

7(d)  1

=SUM(B10+1)

= does not have to be present

NOT =B10+£1

7(e)  1

=IF(F3<50,"Order more stock","Stock level okay")

=IF(F3>=50,"Stock level okay","Order more stock")

If quotation marks missing or spelling errors, award mark

= does not have to be present
### 8(a)

**Three marks for any of:**
- Sending/receiving text messages
- Taking photographs
- Recording videos
- Surfing the Internet
- Playing games / Using apps
- Sending emails
- Uploading/downloading/streaming video
- Social networking
- GPS/GIS
- Playing music
- Watching TV
- Video calls

*Accept any suitable answer*

### 8(b)

**Two marks for advantages from:**
- A fast download speed can mean music is received almost instantly
- Can select which tracks to download so cheaper than downloading whole album
- Can access/get files 24/7
- Can read online reviews before purchasing
- Preview the song before buying
- Use price comparison websites to save money
- Saves time/money as do not have to go to shops to buy
- Increased access to a wider range e.g. the number of websites or variety of music styles

*NOT can be used on multiple devices*

**One mark for a disadvantage from:**
- Viruses can be introduced
- File content may be different from stated name
- Illegal downloads harm the music and film industries
- Breaking the Copyright Act
- More powerful computers needed due to large file sizes
- May lead to shop closure
- Security issues online e.g. hacking, phishing

*No marks for hardware problems*
| 9(a) | Temperature sensor (not Heat)  
Light sensor  
Sunshine hours  
Humidity  
Rainfall sensor  
Wind speed  
Wind direction  
Atmospheric pressure sensor / Air pressure (Not just pressure sensor on its own) | 2 |
| 9(b) | **One mark each for two of:**  
Using icons / graphics / weather symbols  
Video / animations / simulations / games  
Text / messages about the weather  
Numbers  
Maps / satellite  
Graphs / charts  
**NOT** database, spreadsheet, table | 2 |
| 9(c) | **Any two of the following advantages:**  
One mark each for two of:  
Collected at exactly correct time / collected accurately  
Data can be collected from remote and dangerous places  
Data can be recorded accurately  
Data can be transmitted by radio/satellite communication  
Monitor 24/7 / Humans don’t need to be there / Data collected / updated automatically  
Can process large amounts of data | 2 |

**DO NOT ACCEPT ONE WORD ANSWERS**

| 10 | 9-12 marks | Candidates give a clear, coherent answer fully and accurately describe the advantages of email and give three misuses of email and the appropriate prevention methods to email misuse. They use appropriate terminology and accurate spelling, punctuation and grammar. |
| 5-8 marks | Candidates describe some advantages of email, and a few misuses and matching preventions of misuse, but responses lack clarity. There are a few errors in spelling, punctuation and grammar. |
| 1-4 marks | Candidates simply give a few advantages and misuses of email. The response lacks clarity and there are significant errors in spelling, punctuation and grammar. |
| 0 marks | No valid response. |

**Guidance**  
One mark for each point relating to advantages of email (Max 6). Up to three marks for describing misuses of email and then a mark for each prevention of the misuse (max 3). To get full marks must have six advantages, three misuses and three matching preventions of email misuse.

**Any six advantages from:**  
Cut down on mailing costs, stamps / free to send across the globe  
Quicker responses  
Faster to send / faster to receive / quicker to deliver than post  
Record when sent / received  
Can be edited / collaborative working  
Group emails/ CC – save rewriting the same message  
Can pick it up anytime / anywhere  
Can keep in touch with friends and family across the world  
Attachments can be sent  
Ask for read receipt / notification of delivery  
Can use an address book to quickly contact people  
Privacy - Can password protect  
Saves paper  
Can be accessed from a wide variety of devices  
Environmentally friendly, reduces carbon emissions as not physically transported
<table>
<thead>
<tr>
<th>Misuse</th>
<th>Preventions of Misuse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyberbullying</td>
<td>Parental lock / report bullying</td>
</tr>
<tr>
<td>Viruses / malware</td>
<td>Anti-virus software</td>
</tr>
<tr>
<td>Phishing scams</td>
<td>Be aware of phishing, do not respond, report it</td>
</tr>
<tr>
<td>Spam / Junk mail</td>
<td>Spam filter/ block sender</td>
</tr>
<tr>
<td>Security / Hacking</td>
<td>Secure passwords, firewalls, encryption</td>
</tr>
<tr>
<td>Abusive language</td>
<td>Workplace filters</td>
</tr>
<tr>
<td>Wasting company time</td>
<td>Monitoring email usage</td>
</tr>
</tbody>
</table>

**Must state or clearly describe the misuse – cannot award prevention if no misuse. Not general disadvantages (e.g. not network crashes) – must be a misuse**

**TOTAL** 80