




PAPER 1 - HIGHER

Question		Max mark										
1.	1 mark for each correct answer	4										
	<table border="1"> <tr> <td>You were travelling at 31 mph and you have exceeded the 30 mile an hour speed limit</td> <td><b>Knowledge</b></td> </tr> <tr> <td>The Athlete who ran the race in 1 min and 15 seconds is the fastest</td> <td>Knowledge</td> </tr> <tr> <td></td> <td>Data</td> </tr> <tr> <td>1 min 20 seconds 1 min 15 seconds</td> <td>Data</td> </tr> <tr> <td>The athletes times are sorted into order 1 min 15 seconds 1 min 20 seconds</td> <td>Information</td> </tr> </table>	You were travelling at 31 mph and you have exceeded the 30 mile an hour speed limit	<b>Knowledge</b>	The Athlete who ran the race in 1 min and 15 seconds is the fastest	Knowledge		Data	1 min 20 seconds 1 min 15 seconds	Data	The athletes times are sorted into order 1 min 15 seconds 1 min 20 seconds	Information	
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3. (a)	Closed	1										
(b)	Thesaurus	1										
(c)	<p><i>Any two of:</i></p> <p>Centre text, centre justify      <b>NOT 'Centre' NOT 'justify'</b>            Font style / Wordart / Bold font      <b>NOT bold by itself NOT 'font'</b>            Font size            Italics            Underline            Line spacing            Change border/border art, etc.      <b>NOT 'border'</b>  <i>Condone Colour text</i></p>	2										
(d)	<p><b>1 mark for use (purpose or data not audience alone X 4            Cannot be general must have a justification of patient care            Allow interpretations of Health Centre as Fitness Centre</b></p> <table border="0"> <tr> <td><b>Software</b></td> <td><b>Example</b></td> </tr> <tr> <td>Database</td> <td>Store details of patients or members / equipment / medicines / Running machines</td> </tr> <tr> <td>Computer Control</td> <td>Security alarms on heart monitors / on surgery</td> </tr> <tr> <td>Spreadsheets</td> <td>Record patient readings / keep accounts / profit and loss</td> </tr> </table> <p>Presentation software Advertise services / opening times in waiting area.            NB Idea of 'training' is ok as purpose  <i>Any reasonable answer</i></p>	<b>Software</b>	<b>Example</b>	Database	Store details of patients or members / equipment / medicines / Running machines	Computer Control	Security alarms on heart monitors / on surgery	Spreadsheets	Record patient readings / keep accounts / profit and loss	4		
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4 (a)	Unique identifier	1									
(b)	<table border="1"> <thead> <tr> <th>Field</th> <th>Logical operator</th> <th>Search criteria</th> </tr> </thead> <tbody> <tr> <td>Speciality</td> <td>= equals like</td> <td>Dancer</td> </tr> <tr> <td>Gender</td> <td>= equals like</td> <td>F <i>not' female'</i></td> </tr> </tbody> </table> <p><b>1 mark for each correct row</b>  <b>1 mark if rows correct but operator missing or wrong</b>  <b>Allow Gender&lt;&gt;M</b></p>	Field	Logical operator	Search criteria	Speciality	= equals like	Dancer	Gender	= equals like	F <i>not' female'</i>	2
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Speciality	= equals like	Dancer									
Gender	= equals like	F <i>not' female'</i>									
(c)	<p><b>1 for identifying the mistake</b>  05/21/08 <b>or</b> The date of membership of Kerry Jones <b>or</b> there are not 21 months in a year. <i>not just 'the date'</i></p> <p><b>1 mark cause</b></p> <p>Typed in 21 not 12 <b>or</b> transposition error <b>or</b> transcription error not just <i>'typing error' / 'typed in wrong date'</i>  Allow American format</p> <p><b>1 mark prevention</b></p> <p>Range check <i>or description</i>  Drop list for month  Set date properties on field  Any reasonable answer but must not be vague</p>	3									
(d)	M or F / OR / List box	1									
(e)	<p>Accept general answers.  Any 2 of:  Faster to search for / find records <b>not</b> easier  Condense: Saves on office / storage space not <i>'saves space'</i>  Easier to update records Not <i>'easier'</i>  Variety of output formats available  Can password protect files  Can electronically transfer files quickly  Simultaneous multiple access to data  Environmental issues but not <i>'less paperwork'</i>  Any reasonable answer but must not be vague</p>	2									
5. (a)	G2	1									
(b)	<p>A or B2+C2+D2+E2+F2+G2+H2+I2</p> <p>C or SUM(B2:I2)</p>	1									
(c)	Sum(J2:J6) or Sum(B7:I7) or equivalent	1									



Question	Max mark
<p>(f) <i>Any two of:</i>  Shop 24/7 / 365 days  Can find obscure books/wider selection available  Don't have to leave home – <u>must be qualified</u> – less risk of mugging / more comfortable  <u>Don't have to travel</u> to book shop /saves <u>travel time</u> / saves <u>travel costs</u>  Disabled people can search for books more easily  Can have a list of related or alternative books.  Read many comments about the book / get a rating  Easier to compare prices/delivery times/specifications  Discounted products/ Cheaper products because do not need retail space</p> <p>NOT Easier, Cheaper, Faster unless explain <b>why?</b>  <i>Any reasonable answer</i></p>	<p><b>2</b></p>
<p>(g) <b><u>Must be for the bookshop</u></b> and not just a list,  Any two of:  <b>Advertise</b> Books (Condone 'products/videos.dvds/cds) to a <u>wider audience</u>  Job vacancies on website/special offers  <b>Email</b> Customers with latest books / suppliers  <b>Download files</b> Reviews of books  <b>Search facilities</b> Can find obscure books  <b>Chat lines</b> online realtime 'chat' facilities with anyone about a book  <b>Hyperlinks/links</b> to other book sites  <b>Bulletin boards (forums) or newsgroups</b> are also set up where you can leave messages, or communicate directly with other bookshops  Give out contact details/contact details/maps  Order from suppliers websites  Research competitors prices</p> <p><i>Any reasonable answer</i></p>	<p><b>2</b></p>
<p>7. (a) <i>Any two of:</i>  Credit card  Debit card  Smart card / top up card  Cash card  <i>No brand names</i></p>	<p><b>2</b></p>

**Question****Max  
mark**

- (b) Any two but **must be an activity:**  
 Transfer money / send money to another account not 'place' Condone  
 'Pay bills'  
 Change PIN not 'password'  
 Order theatre tickets  
 Top up mobile phones / mobile phone top ups not 'get top ups'  
 Get balance / see balance / print balance / balance enquiry  
 Print receipt / get receipt  
 Order cheque book  
 Order statement  
 Choose language  
 Give to charity  
 Print a mini statement  
 Deposit cash/withdraw cash

**2***Any reasonable answer*

8. (a) **1 mark each advantage and disadvantage**

**2**

- Advantage** Savings on travel time  
 Savings on travel cost  
 Flexible working hours / new mums can work from home  
 More comfortable working environment
- Disadvantage** Social isolation / may not know what is going on in company  
 Could go unnoticed and passed over for promotion  
 Lack of support with technical problems  
 Distractions due to family requirements  
 Inconvenience factor

*Any reasonable answer*

- (b) **2 x 2 for example plus extension**  
**Or 1 each for a list of up to four examples**  
**1 mark for each point from list or valid extension**  
**NOT teleworking**

**4**

- | <u>List</u>           | <u>Examples or extension</u>   |
|-----------------------|--|
| Use email             | Emailing orders / contracts, etc   |
| Use videoconferencing | To avoid wasting time / travel costs / having face to face meetings / carbon emissions |
| Keep data secure      | Now have to have passwords<br>Workers must comply with the Data Protection Act         |
| Websites              | Companies now sell goods on websites<br>Companies have people to maintain websites     |
| Retraining needed     | e.g. to use software such as spreadsheets, databases                                   |
| New jobs created      | e.g. Computer programmers / web site designers<br>/ technicians                        |
| Lost Jobs             | fewer counter clerks / manual filing clerks needed<br>Condone petrol pump attendants   |

*Any reasonable answer*

**Question**

**Max mark**

9. Any three of:  
 Windows  
 Icons  
 Menus  
 Pointers  
 Customised settings / own desktops  
 Favourites  
 On screen help / online tutorials  
 Colour  
**Only 1 mark for 'WIMP'**

**3**

10. (a)

1	3	4
0	1	0

**1**

(b)

1	3	4
1	0	1

**1**

(c)

- Alarm systems  
 Doorbells  
 Remote controls  
*Any reasonable answer*

**1**

11.

**2 marks for hazards**

**2 marks for preventions**

**4**

Health hazard	Prevention
Neck strain	Have eyes at same level as screen Adjust monitor height Use <u>adjustable chairs</u>
Repetitive strain injury	Wrist and feet supports Carpel tunnel syndrome
Epileptic fits	Screens to reduce screen flicker
Radiation	Screen filters
Eye strain	Screen filters/ take regular breaks / have eyes at same level as screen / Adjust angle of screen /Eyes at safe distance
Headaches	Take regular breaks / screen filters
Circulation problems	Take regular breaks
Back problems	Use <u>adjustable chairs</u> / feet supports
'Sick building' syndrome	Better ergonomic design including lighting to reduce glare
<i>Do not give same prevention twice Prevention must match for second mark Not get fat / heart disease</i>	

Question	Max mark
12. (a)	<b>4</b>
<p><b>2 x [2] marks each OR allow 1 x 4</b></p> <p>(i) <b>Broadband</b></p> <p style="padding-left: 20px;"><b>List</b></p> <ul style="list-style-type: none"> <li>• Faster downloads</li> <li>• Can make telephone calls whilst online</li> </ul> <p style="padding-left: 20px;"><b>Extension an example or further Explanation e.g.</b></p> <p style="padding-left: 40px;">Realtime movies, video games, etc.</p> <p style="padding-left: 40px;">You can be online researching homework while mother talking to friend Talk to help line whilst trying to solve an Internet problem</p>	
<p>(ii) <b>Wireless</b></p> <ul style="list-style-type: none"> <li>• No messy cables</li> <li>• Use on the move</li> <li>• Remote access</li> </ul> <p style="padding-left: 40px;">Keep the desktop tidier / smaller footprint / safety issues</p> <p style="padding-left: 40px;">e.g. businessmen at airports or hotels</p> <p style="padding-left: 40px;">Can use internet away from router / can use keyboard away from CPU / can send data to printer without being near it (Must be specific) Not 'can use anywhere'</p>	
<p>(b)</p> <p><b>1 mark x 2</b></p> <p>Web cam / digital camera / video camera      <b>NOT 'camera'</b></p> <p>Microphone</p> <p>Speaker / Headphones</p> <p>Network / WAN / LAN – idea of connection between computers</p> <p>Condone 'router' but not 'modem' ( too slow ) broadband modem is ok</p> <p><b>NOT 'video link'</b></p>	<b>2</b>
<p>(c)</p> <p><b>1 each for a list of up to four examples</b></p> <p><i>Or 1 mark for each point from list or valid extension if answer is expanded.</i></p> <p>Keep in contact (must have concept of over distance e.g. families abroad / people with mobility issues)</p> <p>Face to face communication in two different locations.</p> <p>See people you are talking to in a different country <i>to practise languages</i></p> <p>Online learning courses / see others in class and see tutor directly / see Whiteboard</p> <p>Social networking sites / chat sites To see who you are talking to on for security</p> <p>Show people your products from your home business so no need to travel</p> <p>See persons body language or facial expressions</p> <p><i>Any reasonable answer</i></p>	<b>4</b>

**Question****Max  
mark**

- (d) **1 mark for each prevention x 2**  
**Be careful it is not 'give advice' it is a prevention.**  
**Or 1 mark for a prevention with a valid extension if answer is expanded.**

**4**

<u>Prevention</u>	<u>Extension</u>
Passwords	on online bank accounts / to access the computer / change regularly / keep safe
Encryption	when sending emails / coding the data so it can't be understood
Firewalls	stop access to mailboxes or personal data / ask user if they wish to open the program or file

*Any reasonable answer*

- 1 mark for each prevention x 2**  
**Or 1 mark for a prevention with a valid extension if answer is expanded.**

**Spreading a virus**

<u>Prevention</u>	<u>Extension</u>
Virus detection and eradication programs / virus protection programs	Scan regularly
Don't open / accept unknown emails	Put block on junk mail / spam filters Only allow emails from people in contacts list
Don't open / accept unknown pop ups	Use pop up blocker programs
Don't download	onto hard disc/flash memory/ USB, etc

*Any reasonable answer but allow 'firewall' only once*

**Question****Max  
mark****(e) 1 mark for each danger and one for prevention 2 x 2****4**

Danger	Cyber bullying / harassment / abusive emails
Prevention	Monitor emails Monitor blogging sites Monitor mobile phone calls
Danger	Paedophiles /Chat to 'dubious' people/grooming
Prevention	Net nanny / restrict sites Put computer in common room not in bedroom / monitor/supervise
Danger	Distribute pornographic material / access pornography/adult sites
Prevention	Monitor emails Monitor mobile phone calls Prevent access to adult sites/unsuitable sites
Danger	Identity theft on social networking sites
Prevention	Be careful about giving out personal details e.g. date of birth / do not use the same password on the site/ make profile personal
Danger	Addiction / Couch potato' syndrome / social isolation
Prevention	Restrict hours on the computer / block gaming sites
Danger	Card fraud / Fake websites
Prevention	only use a secure payment site
Danger	Phishing / condone 'scamming'
Prevention	Don't click on links
Danger	Terrorist/racist sites'
Prevention	Net nanny / restrict sites
Danger	Violent behaviour using online games
Prevention	Net nanny / restrict sites

*Any reasonable answer****Only allow 1 example of each type. Block site only once.*****Total****80**