

Mark Scheme for January 2012

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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 should be read in conjunction with the published question papers and the report on the examination.

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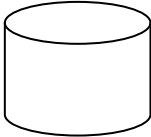
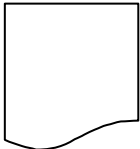

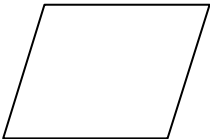
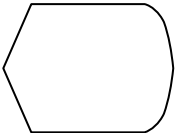
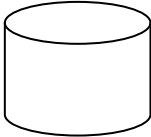
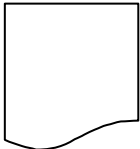

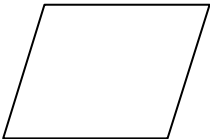
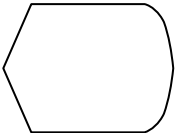
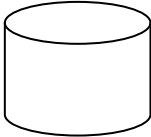
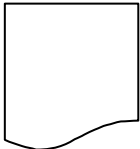

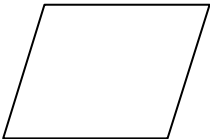
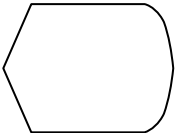
Annotations

| Annotation | Meaning |
|------------|--|
| ^ | Omission mark |
| BOD | Benefit of doubt |
| C | Subordinate clause/Consequential error |
| Cross | Cross |
| E | Expansion of a point |
| FT | Follow through |
| NAQ | Not answered question |
| NBOD | Benefit of doubt not given |
| P | Point being made |
| REP | Repeat |
| / | Slash |
| Tick | Tick |
| TV | Too vague |
| ZERO | Zero (big) |

| Question | Answer | Marks | Guidance | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--------|----------|--------|---------|------------------|---|--|--|-----------------|--|--|---|----------|---|--|--|--------------------|--|---|--|---------|---|--|--|--------|---|--|--|---|--|
| 1 | <p>ONE mark for each correct tick</p> <p>Deduct one mark for each additional tick if more than 6 ticks</p> <table border="1" data-bbox="322 379 1178 627"> <thead> <tr> <th>Device</th> <th>Input</th> <th>Output</th> <th>Storage</th> </tr> </thead> <tbody> <tr> <td>Digitiser tablet</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>Hard disk drive</td> <td></td> <td></td> <td>✓</td> </tr> <tr> <td>Keyboard</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>LCD Data Projector</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Scanner</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>Webcam</td> <td>✓</td> <td></td> <td></td> </tr> </tbody> </table> | Device | Input | Output | Storage | Digitiser tablet | ✓ | | | Hard disk drive | | | ✓ | Keyboard | ✓ | | | LCD Data Projector | | ✓ | | Scanner | ✓ | | | Webcam | ✓ | | | 6 | |
| Device | Input | Output | Storage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Digitiser tablet | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hard disk drive | | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCD Data Projector | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scanner | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Webcam | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | <p>ONE mark for each correct method eg</p> <ul style="list-style-type: none"> • Passwords • Keeping a backup copy • Locked file <p>The second marks are for an expansion of how their suggested methods would prevent the database being lost eg</p> <p>A password (1) could restrict the people who should not save files. (1) A backup(1) would allow the organisation to return to a previous version(1). If the file is locked (1) it cannot be changed. (1)</p> | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Question | Answer | Marks | Guidance |
|----------|--|-------|----------|
| 3 (a) | <p>Three from:</p> <ul style="list-style-type: none"> • (Home) computer connected to the internet • TV • Mobile phone • Internet café • PDA • Blackberry • Blue tooth • WiFi • Router • Modem • Cable provider/service • Broadband • Dial-up • Satellite | 3 | |
| (b) | <p>Three from:</p> <p>Advantages</p> <ul style="list-style-type: none"> • More up-to-date • Company can keep it up to date • Can have moving images • Quicker than posting • Easy to share (send someone else the link) • Can be personalised • Searchable • Links to other useful information <p>Disadvantage</p> <ul style="list-style-type: none"> • Customers have no hard copy... • ... so less likely to read... • Have to be by the computer/customers have to have a computer or internet device • Need technical specialists to maintain website | 3 | |

| Question | | Answer | Marks | Guidance |
|----------|-----|---|-------|----------|
| 4 | (a) | <p>Four from:</p> <ul style="list-style-type: none"> • The customer uses a computer program... • ...to download the newsletter • ...from an email attachment • ...clicks on it... • ...the program is opened... • ...and replicates itself • Virus then spreads itself | 4 | |
| | (b) | <p>Two from:</p> <ul style="list-style-type: none"> • Use virus checking software • Firewall • Don't download files / check source • Don't open email attachments from unknown sources | 2 | |
| 5 | (a) | <ul style="list-style-type: none"> • <u>customer number is needed because a unique field is required</u> • <u>two names are the same / names can be the same.</u> | 2 | |
| | (b) | <ul style="list-style-type: none"> • surname | 1 | |
| | (c) | sort code / title / surname / First Name / address / post code / mobile number / email address | 1 | |
| | (d) | <p>ONE mark for including more than 4 of the fields. TWO marks for more than 5 of the fields. THREE marks for all 7 fields.</p> <ul style="list-style-type: none"> • more than one address field. • space for answers • including sufficient space for answers • a drop down list. • full use of space. | 8 | |

| Question | Answer | Marks | Guidance | | | | | | | | | | | | |
|---|--|--------|-----------------|---|----------------------------|---|--------------------------|---|-----------------------------|--|------------------------------------|---|-----------------------|---|--|
| 6 | <p>Four from:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Symbol</th> <th style="width: 50%; text-align: center;">Appropriate Use</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"></td> <td>Check product availability</td> </tr> <tr> <td style="text-align: center;"></td> <td>Input details of product</td> </tr> <tr> <td style="text-align: center;"></td> <td>Print a copy of a catalogue</td> </tr> <tr> <td style="text-align: center;"></td> <td>Save customer details to hard disk</td> </tr> <tr> <td style="text-align: center;"></td> <td>View online catalogue</td> </tr> </tbody> </table> | Symbol | Appropriate Use |  | Check product availability |  | Input details of product |  | Print a copy of a catalogue |  | Save customer details to hard disk |  | View online catalogue | 4 | |
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|---|--|-----------|----------|-------|--|---|--|--|--|---|--|--|---|---|---|--|---|--|---|---|---|--|--|---|--|---|--|
| 7 | <p>Three from:</p> <ul style="list-style-type: none"> • capture • method of transfer • it is transferred | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | <p>Seven from:</p> <table border="1" data-bbox="322 491 1258 1114"> <thead> <tr> <th data-bbox="322 491 943 528">Statement</th> <th data-bbox="943 491 1099 528">True</th> <th data-bbox="1099 491 1258 528">False</th> </tr> </thead> <tbody> <tr> <td data-bbox="322 528 943 596">A blog can be used by anyone to reach a large audience</td> <td data-bbox="943 528 1099 596" style="text-align: center;">✓</td> <td data-bbox="1099 528 1258 596"></td> </tr> <tr> <td data-bbox="322 596 943 665">A chat is an off line conversation between many computer users</td> <td data-bbox="943 596 1099 665"></td> <td data-bbox="1099 596 1258 665" style="text-align: center;">✓</td> </tr> <tr> <td data-bbox="322 665 943 734">A Tweet is designed for company communication.</td> <td data-bbox="943 665 1099 734"></td> <td data-bbox="1099 665 1258 734" style="text-align: center;">✓</td> </tr> <tr> <td data-bbox="322 734 943 836">Online discussion forums are designed to build online communities of people with similar interests.</td> <td data-bbox="943 734 1099 836" style="text-align: center;">✓</td> <td data-bbox="1099 734 1258 836"></td> </tr> <tr> <td data-bbox="322 836 943 904">When you send an email both people have to be online at the same time</td> <td data-bbox="943 836 1099 904"></td> <td data-bbox="1099 836 1258 904" style="text-align: center;">✓</td> </tr> <tr> <td data-bbox="322 904 943 1007">When you send an email using email software, it is automatically saved on your system</td> <td data-bbox="943 904 1099 1007" style="text-align: center;">✓</td> <td data-bbox="1099 904 1258 1007"></td> </tr> <tr> <td data-bbox="322 1007 943 1114">When you take part in a chat you can set your system so that a record of the chat is saved</td> <td data-bbox="943 1007 1099 1114" style="text-align: center;">✓</td> <td data-bbox="1099 1007 1258 1114"></td> </tr> </tbody> </table> | Statement | True | False | A blog can be used by anyone to reach a large audience | ✓ | | A chat is an off line conversation between many computer users | | ✓ | A Tweet is designed for company communication. | | ✓ | Online discussion forums are designed to build online communities of people with similar interests. | ✓ | | When you send an email both people have to be online at the same time | | ✓ | When you send an email using email software, it is automatically saved on your system | ✓ | | When you take part in a chat you can set your system so that a record of the chat is saved | ✓ | | 7 | |
| Statement | True | False | | | | | | | | | | | | | | | | | | | | | | | | | |
| A blog can be used by anyone to reach a large audience | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A chat is an off line conversation between many computer users | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Question | Answer | Marks | Guidance |
|----------|--|-----------|----------|
| 9 | <p>One mark for each way and one mark for each reason.</p> <ul style="list-style-type: none"> • On-line information • No paper needed. • Virtual company • No need for staff journeys to work. • Computer journey planning • Use of databases to reduce travel distances and costs. • Computer controlled mixed fuel transport • Save on emissions and fuel. | 4 | |
| 10 | <p>Three from:</p> <p>Personal information is:</p> <ul style="list-style-type: none"> • Fairly and lawfully processed • Processed for limited purposes • Adequate, relevant and not excessive • Accurate and up to date • Not kept for longer than is necessary • Processed in line with your rights • Secure • Not transferred to other countries without adequate protection. | 3 | |
| | Total | 55 | |

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