



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Mark scheme

June 2003

GCSE

Information and Communication Technology B

Short Course 3528 Foundation

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1a	This point. 7	1 mark
b(i)	These points. C4 is a number D3 is a formula	2 marks
(ii)	This point. currency	1 mark
c(i)	Any reasonable that identifies cell B5.	1 mark
(ii)	Any reasonable that identifies cells D5 and D7. Allow follow through from ci	2 marks
d	This point. pie	1 mark
Total		8 marks
2a(i)	This point. Employee Number	1 mark
(ii)	Any reasonable, for example: Telephone number, address, tax code, hours of work, attendance, date of birth, date hired. NOT contact numbers, age, how long they have been working for the company,	2 marks
b(i)	This point. Circles 5000	1 mark
(ii)	This point. range check	1 mark
(iii)	This point. $0 < \text{Weekly Wage} < 600$	1 mark
c(i)	This point. Jones and no others	1 mark
(ii)	These points. Clarke, Cook and Jones, and no others	1 mark
Total		8 marks
3a(i)	These points. Allow connection to Processor Box via monitor. Allow the mouse to be connected to the keyboard instead of the Processor Box. Joins four other parts to Processor Box with no other connections, 2 m. Joins two other parts to Processor Box with no more than four connections shown, 1 m. Joins mouse, keyboard and printer to monitor, 1m	2 marks
(ii)	This point. Processor Box	1 mark
(iii)	These points. Keyboard, Mouse	2 marks
(iv)	This point. Scanner	1 mark
c	This point. index.htm – web file	1 mark
Total		7 marks

4a	These points. Record the temperature during the day and at night. Record the temperature using weather stations in a variety of different locations.	2 marks
b	These points. wind direction; light; rainfall	3 marks
c(i)	Any reasonable advantage, for example. Up-to-date information can be collected more quickly. Information could be collected more frequently. A weather station could be located where a person could not reasonably go very often.	1 mark
(ii)	Any reasonable disadvantage, for example. The information may not be collected if there is a power cut. The information may not be collected if the computer breaks down. Set up costs are more expensive.	1 mark
Total		7 marks
5a	These points. D systems design; A documentation; C testing	3 marks
b(i)	These points. The font is too small. The user documentation is not in simple English. The user documentation does not relate to how the ICT system is used in VideoNow's business.	3 marks
(ii)	Any reasonable. For example: On a web site. As a printed manual. Help in the software. Accept email help as a part of documentation, but not telephone help lines.	2 marks
Total		8 marks
6a(i)	Any reasonable. The engineer should know how the system works. The engineer should be able to consult other experts if there are problems.	1 mark
(ii)	Any reasonable. ConLev may not know Gregory House well enough to plan the installation of the system in the most effective way. Different engineers may call at different times, and their work may not be consistent.	1 mark
b	These points. A. the software and hardware are easy to maintain C. the software and hardware are reliable D. the software and hardware are protected from damage by hackers and vandals	3 marks
c(i)	Any reasonable advantage to the owner, for example: It is easier to control the heating because this is done centrally. The central heating system can be adjusted for optimum fuel economy, e.g. temperature can be automatically adjusted depending on a person's presence or otherwise.	1 mark
(ii)	Any reasonable disadvantage to the owner, for example: The heating system has more components and is more complex so more can go wrong. Maintenance engineers must have higher levels of technical skill and may be more expensive.	1 mark
Total		7 marks

7a(i)	Any reasonable, for example: How down loaded: A virus can be downloaded attached to an email. Prevention: Use a virus checker to detect and automatically delete emails with viruses.	2 marks
(ii)	Any reasonable. Must not be a downloading a virus. For example: Security threat: Others can intercept and read your email. Prevention: Encryption.	2 marks
b	Any reasonable Any solutions must leave the hardware useable. For example: Secure computers to the bench. Locate computer rooms off the ground floor. Restrict access to computer rooms using swipe cards and locks. Use security film or wire grills on the windows. Supervise computer rooms when they are in use. Have a WebCam to record who is using the hardware. Mark the equipment with an identification, e.g. UV Keep computers out of sight. NOT passwords to access the computer.	3 marks
Total		7 marks
8a(i)	Any reasonable advantage. For example: The bank is open 24/7. Customers can get a statement at any time. Customers can set up bill payments in advance. No need to leave home to use the bank. Easy to access.	2 marks
(ii)	Any reasonable disadvantage. For example: If the bank's Internet site is not available access to a customer's account is very limited. The range of services offered can be very limited compared with a conventional bank. You can't talk to someone when you need advice. You must have a computer and/or Internet access.	2 marks
b(i)	Any reasonable advantage. For example: You may receive advertising for goods you are interested in. Companies may develop new products if they know in advance there is a market for them. Companies may develop better products if they know what customers want.	1 mark
(ii)	Any reasonable disadvantage. For example: You may receive a lot of junk mail/email. You may receive a lot of information about goods that you are not interested in. Telesales persons may ring you up and try to sell you goods.	1 mark
c	Any reasonable. Personal information must be: fairly and lawfully processed processed for limited purposes adequate, relevant and not excessive accurate not kept longer than necessary processed in accordance with the data subject's rights secure not transferred to other countries without adequate protection	2 marks
Total		8 marks