AQA

ASSESSMENT and
QUALIFICATIONS
ALLIANCE

General Certificate of Secondary Education

Information and Communication Technology 3528
Specification B

3528/H Short Course Higher Tier

Mark Scheme
2006 examination – June series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

3528/H - Higher Tier Written Paper (Short Course)

1.		
a.		
i)	Any reasonable, for example: Highlight 2 of the 't's + cut/delete, 1+1 Right click on the error + select the correct spelling, 1+1 Position the cursor to the left of the 't's + press the delete key 2 times NOT do a spelling check	2 marks
ii)	Any reasonable, for example: Put each feature on a new line Use bullets Indent Must be layout features NOT style, font, font size, colour	2 marks
b.		
i)	These points. All in order, 2m 3 in order, 1m Correct order is: <table><tr><th>Label</th><th>Operation</th></tr><tr><td>B</td><td>Highlight the bar chart in the spreadsheet</td></tr><tr><td>D</td><td>Copy the bar chart</td></tr><tr><td>C</td><td>Position the cursor in the word processor document</td></tr><tr><td>A</td><td>Paste the bar chart</td></tr></table>	2 marks

ii)	Any reasonable similarity, for example:
	    The highlighted text appears at the insertion point after paste, 1m
	Any reasonable difference, for example:
	    The highlighted text disappears when cut, but when copy is used it does not disappear, 1m
		2 marks

	Total	**8 marks**

2.		
a.		
i)	This point. Scanner	1 mark
ii)	Any reasonable, for example: Keyboard, mouse NOT scanner	1 mark
b.		
i)	This point. Speakers	1 mark
ii)	Any reasonable, for example: Monitor NOT speakers	1 mark
c.		
i)	This point. To keep a list of tasks that need doing, such as homework.	1 mark
ii)	Any reasonable, for example: Play games. Listen to music. Send e-mail. Access the web. Use mapping software to find their way. Use as a remote control handset. Read a book. NOT task list	2 marks
d.	Any reasonable, for example: So that the e-mail addresses, etc. of friends on the PDA are the same as on the desktop computer. So that the version of your calendar you are looking at is always the same. Allow: the desktop computer is a backup for the data on the PDA and vv.	1 mark
	Total	**8 marks**

3.		
a.	This point. Allow a number between 0 and 50.	1 mark
b.	This point. C10 or C11 or both If more than 1 cell reference is given, -1 for each incorrect Allow upper case or lower case	1 mark
c.	This point. =sum(C5:C10) or sum(C5:C10) or equivalents. Allow: =sum(C4:C10) or sum(C4:C10) or equivalents. Allow upper case or lower case. Refer written comments to the Chief Examiner.	1 mark
d.		
i)	These points. All in order, 2m Any 3 in order, 1m Correct order is: C B D A	2 marks
ii)	Any reasonable, for example: There is no need to travel to the autospares shop as the air filter is delivered by post. The air filter may be cheaper because there is more price competition on the web as there is a wider range of suppliers. It may be easier to find the right air filter as there are a wider range of specialist suppliers on the web.	1 mark
iii)	Any reasonable, for example: The mechanic will have to pay by credit card on the web and he/she hasn't got one. The mechanic will have to pay by credit card on the web and he/she is worried about on line fraud and/or security. The mechanic has to wait for the air filter to be delivered. As the air filter is delivered by post there is an extra charge for postage.	1 mark
e.	Any reasonable, for example: The cost of postage would be less from the UK. Parts for the car being serviced are more likely to be available in the UK. If there are problems it's easier and cheaper to sort them out if the supplier is in the UK rather than in, for example, the USA.	1 mark
	Total	**8 marks**

4.		
a.	Any item of information <u>that appears in the e-mail</u>. If more than 2 items are given calculate marks as follows: (Number of items correct – number of items incorrect) max 2; min 0 For example: The trip starts in Settle. The train is a steam train. The trip starts at 8.30am. There is a special offer return price. The return price is £9. Time of departure Date of trip NOT a copy or rewrite of the question	2 marks
b.		
i)	Any reasonable, for example: DTP (Desk Top Publishing) Allow named software, e.g. Publisher NOT wordprocessing; presentation	1 mark
ii)	Any reasonable, for example: Better control over page layout. Wizards to help with poster design.	1 mark
c.	Any reasonable, for example: Pictures are more attractive when printed in colour. Posters have more impact when printed on very large sheets of paper.	1 mark
d.	Any reasonable, for example: Zip disk, CD-R, floppy disk, flash memory stick or equivalents, e.g. pen drive, memory card or equivalent. Allow: iPod, PDA. Accept hard disk only if it is clear that this is removable or networked. NOT CD-ROM	2 marks
	Total	**7 marks**

5.		
a.	These points. The driver's name. The car's registration number.	2 marks
b.	This point. Personal data must be relevant to the purpose for which it is collected.	1 mark
c.	Any reasonable reason for, for example: As the school already uses a computer for school administration, it's easier to do this than use a paper based system. The information is stored securely as it is backed up as part of routine housekeeping procedures. The list is more private as it is not pinned on the notice board in the school office. Any reasonable reason against, for example: If there isn't an existing computer that can be used for this application, the volume of data does not justify the expense of buying a new computer. It may be faster to look at a short list on a piece of paper than access the database. You do not need to know how to use a database if you keep the information on a piece of paper.	4 marks max 3 adv. max 3 disadv.
	Total	**7 marks**

6.		
a.	These points. The ICT system adds one to the total when a person enters. The ICT system subtracts one from the total when a person leaves. The total is set to zero before people are admitted.	3 marks
b.		
i)	These points. People who have reserved seats do not attend.	1 mark
ii)	Any reasonable, for example: Admit only one person and check that the total has increased by 1. Manually count the number of people in the stadium and compare this with the total calculated by the ICT system.	2 marks
c.		
i)	This point. Writes down all of: Wardak, Patel, Smith and no others in any order. Allow upper case and lower case combinations and misspellings.	1 mark
ii)	Any reasonable, for example: Because the street and the town have not been separated in the address. Because Wardak lives in Leeds Gardens and this is not the city of Leeds.	1 mark
	Total	**8 marks**

7.		
a.		
i)	This point. Make sure there is always a security guard in the foyer.	1 mark
ii)	Any reasonable, for example: Bolt or otherwise secure the computers to the desks. Block up the windows or fit metal security grills over them. Introduce double yellow lines to further restrict parking at the front of the building. Extend the building's burglar alarm into the foyer. Fit an independent burglar alarm in the computer room; BoD fit an alarm. Move the computer room from the ground floor. Control access to the computer room using swipe cards or coded locks. Redevelop the car park at the back of the building to make it more difficult to get to the computer room windows. Fit CCTV cameras; BoD Fit a security camera; NOT use a camera. Use a swipe card operated lock, NOT lock the doors. NOT a security guard in any location.	3 marks
b.	Any reasonable, for example: Use a firewall to prevent unauthorised installation of viruses and other malicious software from the Web. Ensure users have an authorised username <u>and</u> password before allowing them to connect to the wireless LAN. Encrypt all the data on the wireless LAN.	3 marks
	Total	**7 marks**

8.		
	The discussion does not need to be evenly balanced between lifestyle, patterns of work and the environment. Interpret lifestyles, patterns of work and the environment very generously.	7 marks
	Any reasonable effect on lifestyle, for example: You tend not to vary your diet. You do not have to worry about shopping for the food you keep in the fridge. You can switch on the kettle and the cooker from work just before you go home. You need to subscribe to broadband. The appliances would probably cost more as they have more intelligence built in. Your kitchen might have to have extra wiring to each appliance. Someone else could cause trouble for you by turning your appliances on and off without you knowing. Any reasonable effect on patterns of work, for example: Housework changes because you do not have to make shopping lists and go to the shops as often. More van drivers are needed to deliver the goods. More supermarket staff are needed to pick the goods that have been ordered. If you forgot to switch off the cooker, you can switch it off from work so you do not have to go back home. Any reasonable effect on the environment, for example: People will not drive to the supermarket to shop which reduces car pollution. People will not drive to the supermarket to shop which reduces congestion. More delivery vans will be on the roads which increases pollution. More delivery vans will be on the roads which increases congestion. If you lock yourself out of the house leaving a pan on the cooker, you can switch it off from a neighbour's house.	
	Total	**7 marks**