## **UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

International General Certificate of Secondary Education

## MARK SCHEME for the November 2005 question paper

## 0418 INFORMATION TECHNOLOGY

0418/01 Paper 1 (Written), maximum raw mark 80

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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 must be read in conjunction with the question papers and the Report on the Examination.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

• CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 1	Mark Schem		Syllabus	Paper
		IGCSE- NOVEMBE	R 2005	0418	01
1	B MICR C Magn	ode reader /Magnetic Ink reader etic stripe reader al mark reader			
	1 mark e	each			[4]
2	Monitor Printer				
	1 mark e	each			[2]
3	(	Control program	produci	ng a slide show	
	5	Spreadsheet	recordii liquid	ng the temperatur	e of a cooling
	Γ	Database	keeping	g track of persona	Il finances
	N	Multimedia presentation	storing	information about	t pupils
	N	Measuring program	burglar		
	1 mark e	each correct arrow			[4]
4	FALSE TRUE TRUE TRUE				
	1 mark e	each			[4]
5	Software Hardwai Hardwai Hardwai	re re			
	1 mark	each			[4]
6	PENDO FORWA RIGHT S	90 RD 25 90 ARD 20 WN ARD 40	Allow: FD for FORWAI PU for PENUP RT for RIGHT PD for PENDO\		

[5]

FORWARD 45

1 mark each pair of statements

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE- NOVEMBER 2005	0418	01

7	(a)	(a) Two from:     Save it to removable storage medium     make a copy on removable storage medium and delete it from network are     Change/use password.     Store it in a secure/hidden folder			
•			[2]		
	(b)	two from: computer works in digital phone lines carry sound/analogue signal need to convert digital to analogue	[2]		
	(c)	two from: e-mail teleconference/video conference IRC/chat rooms/instant messaging bulletin boards/newsgroups	[Z]		
			[2]		
	(d)	encryption	[1]		
8	vide table char links hot s butte num hit c	three from: sound video/animation tables charts/graphs links hot spots buttons numbers hit counters forms			
9	(a)	C5	[1]		
	(b)	A1 or any cell in column A or in Row 2	[1]		
	(c)	=B3-C3	[1]		
	(d)	(=)SUM(C3:C7) <b>OR</b> (=)(C3+C4+C5+C6+C7) <b>OR</b> (=)B3-D7	[1]		
10	(a)	problem -electrocution prevention – RCB installed problem – trailing cables prevention – create ducts/cover cables with carpets etc. problem – heavy equipment falling prevention – sturdy tables problem – fire prevention – CO <sub>2</sub> extinguisher 1 mark for each problem (2 maximum) 1 mark for each prevention (2 maximum)	[4]		

	- 3		IGCSE- NOVEMBER 2005	0418	01
	(b)	do n do n regu do n do n firew	e from: ot download software ot open email (attachments) larly update antivirus ot use floppy discs from unknown sources ot open emails from unknown sources valls of content blocking software		[3]
	(c)	acce dete looki char dele	e from: essing computer systems illegally cting passwords using software remotely/locally ing at other peoples data/passing on data nging other peoples data ting other peoples data rting viruses		[3]
	(d)	disac dang can have othe inter inter spee	points (cannot gain full marks without at least one ear dvantages) ger of accessing offensive websites take long time to find required information to have a modem/internet connectivity to have a telephone line/computer repeople in the house cannot use phone line net is up to date net has vast amounts of information and of search only if referring to use of search engine access biased/inaccurate websites of expertise leads to inefficient searching	ch of advantag	es/
11	(a)	(i) (ii) (iii)	Hussain, Parvez Hayer, Tony Dixon, Paul		[5] [1] [1]
	(b)		ble entry al verification		[1] [1]
	(c)	(i) (ii) (iii)	range check or description invalid character check or description range check or description		[1] [1] [1]
12	(a)	such	ark for identify plus 1 mark for a description as 3D modelling, simulation (e.g. flight or driving) ar onal finance and tuck shop finances	nd use of sprea	
	(b)	(b) any two reasons from: safety cost of building real thing time scale		[2]	
		uiile	SUBIE		[2]

Mark Scheme

**Syllabus** 

Paper

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	Page 4		Syllabus	Paper
		IGCSE- NOVEMBER 2005	0418	01
13	(a)	three from: temperature pressure/barometer moisture humidity light anenometer/wind/movement sensor		[3]
	(b)	two from: computer can take readings during holidays computer readings are more accurate readings can be taken more frequently readings can be taken any time of day or night can produce graphs more quickly more reliable/readings taken at regular intervals		[2]
	(c)	database/spreadsheet		[1]
	(d)	four from: load DTP/word processor open new document create text/table frames copy data from spreadsheet paste data into text/table frame enter text import graphs resize data printed out		[4]
14	(a)	any reasonable description (1) of use of dials or butt	ons/keypads/touchs	creen (1) [2]
	(b)	four from: heater is switched on temperature sensor constantly monitors temperature temperature of oven is compared with preset value if lower heater stays on if higher microprocessor switches heater off	<b>;</b>	[4]

time is constantly monitored

time elapsed is compared to preset time if equal then heater is switched off by microprocessor microprocessor causes buzzer to sound