MARK SCHEME for the October/November 2008 question paper

0418 INFORMATION TECHNOLOGY

0418/01

Paper 1 (Written), maximum raw mark 120

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

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.

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

CIE is publishing the mark schemes for the October/November 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



UNIVERSITY of CAMBRIDGE International Examinations

	Page 2		Mark Scheme	Syllabus	Paper
	-	IGCS	E – October/November 2008	0418	01
1	B Laser priC PIN padD Micropho	(1)			[5]
2	Floppy disc (Hard disc (1)	1)			[2]
3	False (1) True (1) True (1) False (1) True (1)				[5]
4	Dot matrix pri	inter	high quality high volu	ume output (1)	
	Laser printer		high quality low volu	me output (1)	
	Inkjet printer-		multimedia presenta	tion (1)	
	Monitor		very large high quali	ty printouts (1)	
	Graph plotter		continuous stationer		[5]
	Graph piotter		continuous stationer	y (1)	[5]
5	(a) Magnetic	: tape (1)			
	(b) Chip (1)				
		NA (A)			
	(c) DVD RO				
	(d) Barcode	(1)			[4]
6	Right Forward Right Forward Penup Forward Pendown Forward Penup Right Forward Pendown Forward	90 70 90 60 80 85 90 50 20			
	Right	90			
	Forward	100			

(1 mark for each group of 3 statements)

100

Forward

[5]

	Page 3	Mark Schem	e	Syllabus	Paper
		IGCSE – October/November 2008 0418 01			01
7	(a)	(b)	(c)		(1 mark each) [3]
8	Phone call is You don't hav Email can be Replies to en	ve/to be delivered cheaper than a stamp ve to leave your house to send e read from any location nails can be quicker per, quicker) to send same mess			[2]
9	Observa Can gain Examinir Can follo Question	nge script to suit circumstances/	(1) input/output format	design (1)) [8]
	Referenc or non-fi copies Informati	name (1) ce/Accession number/ISBN/Pub ction/target age group/picture c on fills the page AND is clearly a ate spacing for each field (1)	of author/date publis (2 marks	2	contents/no. of
	(c) Three from Field nar Field type Field leng Key field Validatio Index Input ma	ne e gth n check			[3]
	Abnorma Data of t Extreme	ch is acceptable/within the giver al data (1) he wrong type/outside the given	range (1)		[6]

Page 4		Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2008	0418	01
	Have to Direct ch If unsuce Pilot run If unsuce Phased	running/implementation pay two sets of workers/takes a long time before sy- nangeover cessful lose all the data	stem is fully implem	nented [6]
	The app Compar Identifica Identifica	om: e of use of the solution ropriateness of the solution son of the solution with the original task requiremen ation of any limitations ation of any improvements which can be made to the on of the users' responses to the results of testing th	e system	[3]
	(g) Three fr RSI – wi RSI – fir Headach Back pro Sight pro	rists Igers nes oblems		[3]
-	At ATM or E PIN is typed	l to read bank/credit cards FTPOS systems in using PIN PAD ip are read by chip reader		[3]
	Online (1) Batch (1) Online (1) Batch (1)			[4]
12	(a) E2			[1]
	(b) Any cell	in range A1:A6 OR A1:E1		[1]
	(c) = C2 – E	32		[1]

Page 5		ge 5	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2008	0418	01
	(d)	Highlight Click cop Highlight Click pas OR Highlight Using fill Drag dov OR Highlight Highlight Click on t	Dy D3:D6 ste D2 handle/little black cross/cross in bottom right hand wn to D6 D2 D3:D6		for each line) [max. 3]
	(e)	6			[1]
	(f)	Scientific	ons atical models		[2]
	(g)	Two from Danger Cost of b Time sca	building real thing		[2]
	Inpu	expert sy with thos using infe using rule matches	tions asked by system/answers typed in/symptoms ystem compares symptoms te in the knowledge base erence engine es base are found gested/possible diagnoses	are typed in proces	sing — [6]
14	(a)	Three fro Humidity Moisture Tempera pH Light	,		[3]
	(b)		produce analogue data/signal (1) ers work in digital (1)		[2]
	(c)	Analogue	e to digital converter (1)		[1]

Page 6		ge 6	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2008	0418	01
	(d)	Readings Readings Can prod	n: r readings are more accurate s can be taken more frequently s can be taken any time of day or night luce graphs more quickly able/readings taken at regular intervals		[2]
15	(a)	People a Images c Software	om: beople can take part in a conference regardless of v re connected online of the members of conference appear on the screer is needed in each computer to operate the confere who speak can be heard by all the other people in th	n ence	[3]
	(b)	Do not ha Do not ha	n: ave to pay for conference room/less expensive thar ave to pay employee travelling expenses ave to pay for hotel roams/overnight stays aces can be called at short notice	n hiring larger accor	mmodation [2]
16	Tec Tec	hnical (1) hnical (1) hnical (1) r (1)			[4]
17	Five from: DTP – Advantages Can get information to every household Disadvantages Need for physical distribution No sound No animation Printing costs				
	Presentation – Advantages Sound Animation Interactive Disadvantages Library will need to have screen/computer Cost of screen/computer Not everyone will visit the library (Must be at least 1 advantage and 1 disadvantage or max 4 +1 for reasoned conclusion)			[6]	

Page 7	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2008	0418	01

18 Seven from:

Advantages

Less danger of mugging

Don't have to waste time travelling to shops/banks/theatres etc.

Disabled people don't have to travel/leave home

Don't have to spend money on travelling expenses travelling (long distances to shops/banks/ theatres)

Greater choice of goods/seats

Can shop when shops/bank when banks/book tickets when theatres are closed

Disadvantages

Lack of socialising/social contacts Customers must have a computer/Internet access/(basic) computer skills Hackers may intercept data and defraud customer Deprived of personal touch Phone bills can increase Without broadband other family members cannot use the phone Cannot see/feel goods in reality More vulnerable to phishing Lack of exercise

(+1 for reasoned conclusion

Max. 5 from either advantages or disadvantages)