

WANN, PapaCambridge.com MARK SCHEME for the October/November 2011 question paper

for the guidance of teachers

9691 COMPUTING

9691/11

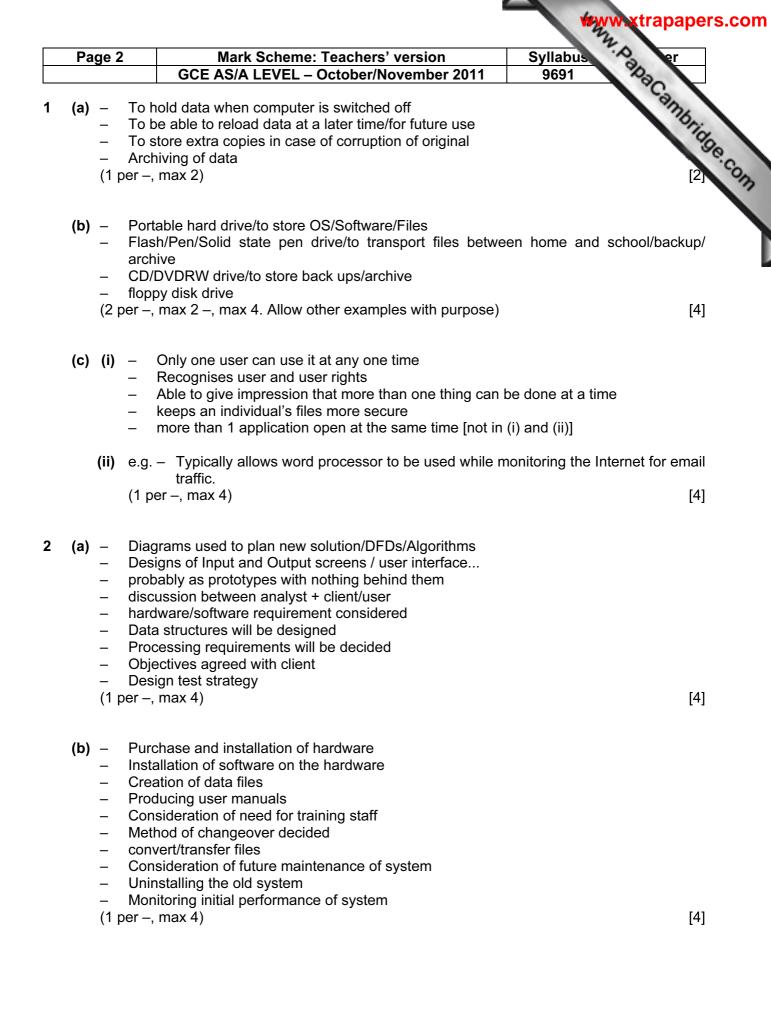
Paper 1 (Written Paper), maximum raw mark 75

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, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Pa	ge 3	3 Mark Scheme: Teachers' version	Syllabus of er
	•	GCE AS/A LEVEL – October/November 2011	9691
 (1 p	sma impo beca appo Sou so th butte	hit volume of information because all screen and portant to remove extraneous information cause driver can only glance at screen propriate colour used to show route on map und to provide a commentary of directions that driver does not need to look away from road tons/ touch screen bfor input / menubased -, max 5)	Syllabus 9691 Brocentium 1000 1000 1000 1000 1000 1000 1000 10
Set 	Data and crea Data crea Rule	ta collected from experts in the field d from resource material like books/encyclopaedias/ ate user interface ta stored in the knowledge base ate inference engine les governing the use of the data are stored in the rules base t the system against known outcomes	e max 4
Use 	Que Kno infei Res Prol Rea	estions asked about the sample as part of the interface owledge base is searched for answers to questions posed erence engine used sults are presented on screen/given to user along with obabilities in percentage form asoning behind the results given / explanation system ax of 6	max 4 [6
10 8	ama		Įo
		 Stored together, physically Under a common name using index as reference One dimensional array is a list (1 per –, max 2) 	[2
	(ii)	INPUT ITEM FOR I = 0 TO END_OF_ARRAY IF ARRAY (I) = ITEM THEN 'FOUND', END NEXT I REPORT 'NOT FOUND'	
	- - -	Mark points: Identify item to be found Loop with suitable condition Condition statement correctly structured with suitable condi Error condition reported per –, max 4, accept any form of presentation of mark points	

Page 4	Mark Scheme: Teachers' version		Syllabus Syllabus
	GCE AS/A LEVEL -	- October/November 2011	9691
b) – – – – –	and link new	pointer and pointer moved / ad at front pointer and pointer r empty	
(i)	 <u>Temperature</u> sensor/ke To give processor infor when to operate/Time 		oom/required temperature and [2
(ii)	 speaker/beeper to confirm / reject inpl LED 	o control air conditioner/to tell u uts vorking / show if temperature is	
a) (i)	 All data is relevant 		f data/reduces entry error [3
(ii)	•	sure all statements are produc ta to answer individual queries	
b) (i)	 Necessary because if o it 	riginal date is corrupted/lost, b	back-up can be used to replace [1
(ii)	 File copied daily to portable storage at least one copy kept c Mention of need for Tra test restore process (1 per –, max 3) 		[3
	dware: 2 from: Router/Gatew ware: Browser/Communicati	vay/Modem/cables ions software/modem driver/fir	ewall [3

Page 5	Mark Scheme: Teachers' version	Syllabus Syler
	GCE AS/A LEVEL – October/November 2011	9691 22
– If – tł – if – o	Video files contain large volumes of data watched at a later time then it does not matter how long d merefore bit rate can afford to be low watched as it is downloaded then the bit rate must be high r the video will not run without jerking/losing quality 1 per –, max 4)	19
c) (i) – – – – (1	 Handshake ensures that both parties are <u>ready to com</u> Must agree on the format of the medium for communication Must agree error checking e.g. parity Must agree form of data to be used e.g. character set specify parameters (if not one of 3 above) 1 per –, max 3) 	
(ii) – – – –	communicate effectively different layers deal with different part of communicatio To allow a layer to be altered without the need to alter other layers	
(d) (i) S	oftware ready for immediate use / readily available	[1]
(ii) – – – –	 Development costs are shared Commonly used, therefore trained workforce Plenty of help available if you get stuck / help books av better tested Parts of software compatible with others in suite Regularly upgraded 1 per –, max 3) 	ailable [3]

Α	в	С	D
0	0	0	1
0	1	1	0
1	0	1	0
1	1	1	0

(1 for each of the two columns C and D)

[2]

						Syllabus 9691 9691 Syllabus 9691 Syllabus Sylla		
Pag	Page 6		e 6 Mark Scheme: Teachers' version				Mark Scheme: Teachers' version	Syllabus er
				GCE	AS/A LEVEL – October/November 2011	9691		
(b)						an		
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_	0	1	0	0		137		
_	1	0	0	1				
-	1	1	0	0		l		
(1 pe	er pa	air, m	hax 4)	[4]		