FOR OFFICIAL USE			

	KU	PS
Total Marks		

0560/402

NATIONAL 2007

WEDNESDAY, 2 MAY QUALIFICATIONS G/C 9.00 AM - 10.15 AM F/G 10.20 AM - 11.35 AM

COMPUTING STUDIES STANDARD GRADE General Level

Fill in these boxes and read what is printed below.	
Full name of centre	Town
Forename(s)	Surname
Date of birth	
Day Month Year Scottish candidate number	Number of seat
Read each question carefully.	
Attempt all questions.	
Write your answers in the space provided on the quest	ion paper.
Write as neatly as possible.	
Answer in sentences wherever possible.	
Before leaving the examination room you must give th you may lose all the marks for this paper.	is book to the invigilator. If you do not,





1.		e Gibson family are going on holiday to a Scottish island. ey are travelling by car and ferry.	KU	PS
	(a)	The family find out more about the ferry crossing by going <i>on-line</i> at www.scotferry.co.uk .		
		What does the "www" stand for at the beginning of the address?		
		W W W	0	
	(b)	The ferry company sends the Gibsons a letter confirming their booking. At the bottom of the letter is a <i>standard paragraph</i> .		
		What is a standard paragraph?		
			2 1	
			0	
	(c)	The company's stationery looks like this:		
		Scotland by Ferry Ship Road Ullapool		
		State the changes that have been made to the graphic at the top to make it look like the one at the side.		
				2 1 0
				U
[05	60/40	Page two		

tinued)			KU
		ped as "Gibbson". ge could be used to correct this	
	has enclosed details of		
Journey	Departure	Arrival	
Ullapool – Stornoway	0900	1130	
Ullapool – Summer Islands	1030	1110	
State two advantag	es in using the <i>table</i> faci	lity to create this layout.	
1			
2			2
			1 0
			1
		[Turn over	

2. The Ferry Company keep a spreadsheet for each crossing.

[0560/402]

	A	В	С	D	E	F
1	Ferry Crossings 2007					
2						
3	Journey	Number of passengers	-	Number of cars	Cost per car	Total from passengers and cars
4	Ullapool to Stornaway	300	£13.00	98	£23.00	£6,154.00
5	Ullapool to Summer Islands	150	£7.50	30	£15.00	£1,575.00
6	Oban to Mull	60	£8.00	52	£20.00	£1,520.00
7						
8						
9	Average number of cars per s	sailing		60		

11101	rage number of cars per saming		
			NOT FE IN IARGI
()		KU	PS
(a)	Cell F4 contains a formula. Part of it is shown below. Complete the formula.		2
	= (*) + (*)		0
(b)	Cell D9 contains a function. Part of it is shown below. Complete the function.		2
	=(:)		0
(c)	State two ways in which cell A3 has been formatted.		
	1	2	
	2	0	
(<i>d</i>)	What attribute has been applied to the numbers in cells C4 to C6?		
		0	
		1	1

Page four

		son notices that her local chemist has an <i>expert system</i> , which covers nesses including travel sickness.		
(a)	Wha	at is an expert system?		
			2	
			1 0	
(b)		e one area, other than medicine, where an expert system could be and what it could be used for in that area .		
	Area	ı		
	Wha	at it would be used for		
			2 0	
(c)	On b	poard the ferry there is a <i>multimedia</i> presentation about the island.		
	(i)	State one reason for using <i>audio</i> in a presentation.		
			1 0	
	(ii)	A <i>hyperlink</i> is used between slides in the presentation. What is a hyperlink?		
			1 0	
	(iii)	On one of the islands it is possible to go white water rafting. The presentation includes this as a <i>video</i> clip.		
		State one reason for using a video clip in a presentation rather than a photograph.		
			1 0	
		[Turn over		
60/40	121	Page five		

DO NOT
WRITE IN
THIS MARGIN

KU	PS
----	----

3 2

1 0

4. (a) The ferry company uses a *database* to keep a file of all its customers. For each of the fields below state a suitable *field type*.

The first one has been done for you.

(b) Below is part of a record from the customer file.

13/10/07

Outward Journey

Name	Harry Gibson
Customer Code	HG3679
Departure	Ullapool
Destination	Stornoway
Outward Journey	13/10/07
Time	1830 hours
Type of Car	Land Ranger

The ferry company wishes to know how many Land Rangers are travelling from Ullapool to Stornoway on 13/10/07.

Choose **five** words from the list below to complete the paragraph.

4

[0560/402]

AND Type of Car equals Land Ranger.

4.	(coı	ntinued)	KU	PS
	(c)	The company now wish to put this list in alphabetical order		
		• firstly by name		
		• and then by type of car.		
		Number the steps below to show the correct order.		
		and choose to sort on type of car		
		start a new complex sort		2
		choose to sort on customer name		1 0
	(<i>d</i>)	When a customer's code is typed in, the computer checks that only six characters have been entered.		
		What type of check is this?		1
	()			0
	(<i>e</i>)	Only certain employees should have access to the database. Describe two suitable methods which they could use to control access.		
		1		
		2		2
				1 0
	(<i>f</i>)	A passenger is surprised to receive a brochure from a holiday homes company which is based on the island they are travelling to.		
		Tick (✓) one box which indicates how the holiday homes company got their name and address.		
		The passenger wrote to the company		
		The ferry company have sold their customer list		1
		The left y company have sold their customer list		0
		[Turn over		

Page seven

(a)	(i)	not sealed. State the type of processing that is being used to control the ferry			
<i>(a)</i>	(1)	doors.			
	(ii)	State a reason for this.			
<i>(b)</i>	State	e a type of sensor which could be used in this situation.			
(c)	kept	e ferry sometimes has to transport cargo. Before loading, the cargo is t in a warehouse. The warehouse uses automated vehicles which are led by a light system.			
		ng some of the words below complete the paragraph about a light lance system.			
	contr	rol feedback sensor magnet instructions			
	Α _	follows a white line. Should the vehicle move			
	away	y from the line causes the computer to send			
	out _	which bring it back to the correct position.			
(<i>d</i>)	State	e two advantages of using automated vehicles.			
	1 _				
	_				
	2		1		
			0		
				1	

 $Page\ eight$

6. (a)		KU	PS
	could be used to overcome their fears.		
			2
			1 0
(b)	The shop on board the ferry uses a computer program for stock taking. It is written in a <i>high level language</i> .		
	Tick (\checkmark) two boxes which are <i>common features</i> of high level languages.		
	Written in binary		
	English like		
	Portable	2	
	Cannot be edited	0	
(c)	Explain why it is necessary for high level languages to be translated.		
		1 0	
(d) How are numbers represented in a computer?		
	Tick (✓) one box.		
	ASCII		
	Pixels		
	Binary	$\begin{vmatrix} 1 \\ 0 \end{vmatrix}$	
	[Tuen over		
	[Turn over		
[0560/	402] Page nine		
- '/	<u>.</u>		

6.	(coı	ntinue	ed)	KU	PS
	(e)	of b	shop saves information onto <i>backing storage</i> . Put the following types acking storage into order, according to their <i>capacity</i> . One box has a completed for you.		
		Use	1 for the smallest and 4 for the largest.		
		USE	3 Flash Drive 2		
		DVI	O Rewriteable		
		Haro	d Drive	2	
		CD	Rewritable	0	
	(f)		shop needs to make printouts of its stock taking. The printouts will ade figures which must be able to be read clearly.		
		(i)	Suggest a suitable type of printer.	1 0	
		(ii)	State one reason for your answer.		
					1 0
	(g)		he passengers like to have a picture of themselves put onto a sheet of er which shows the ferry and a map of the island.		
			nber the steps below from 1 to 4 to show the correct order of how this d be achieved. The first step should be numbered 1.		
		Imp	ort photograph to desk top publishing package		
		Prin	t document		
		Take	e photograph of customer with digital camera		3 2
		Save	e document		0

Page ten

DO NOT
WRITE IN
THIS MARGIN

con	tinued)	KU	F
h)	Within the shop there is a <i>monitor</i> which displays live pictures, with sound, of what is happening on the captain's bridge.		
	State two pieces of hardware, other than a monitor, which could be used to display the live pictures.		
	1		
	2		
i)	The manageress of the shop often uses a <i>laptop</i> computer.		
	State the type of monitor a laptop would have.	1	
i)	The manageress uses her laptop to create adverts for the shop. Complete the following sentences using the words provided.	0	
	data program		
	The manageress uses a desk top publishing package.		
	This is a file.	2	
	With this she creates an advert. This is a file.	0	
	[Turn over		

Page eleven

7.	(a)		king out how many cars could travel on the ferry used to be done ually. Now a computer program calculates it.	KU	PS
		Who	o would have examined the old system to see if computerisation was ible? Tick () one box.		
		Prog	grammer		
		Syst	ems Analyst		
		Eng	ineer		
		Netv	work Manager	0	
	(<i>b</i>)	Use	some of the following words to complete the sentences below.		
		prog	rammer engineers network manager systems analyst		
		Whe	en computers were first installed at the ferry company's head office		
		they	were installed by		
		A _	was employed to write a program which		
		calcu	ulates the weight on board the ferry.		
		The	re are now so many computers linked together it is necessary to		2
		emp	loy a to allocate usernames.		1 0
	(c)	(i)	Some customers pay for their ferry crossing using cheques which have MICR (Magnetic Ink Character Recognition) data printed on them.		
			State one advantage of MICR		
				1 0	
		(ii)	Others use EFT to pay for their fare. What do the initials EFT stand for?		
			E T	1 0	

١.	(a)	The following statements refer to <i>broadband</i> or <i>dial-up</i> connections.	KU	PS
		Choose the appropriate type of connection for each statement.		
		The first one has been done for you.		
		Broadband Dial-up		
		1 Provides faster speed of access to the Internet.		
		2 This type of connection is always on.		
		3 This type of connection can be paid for by the minute.	3	
		4 Telephone calls can be made and received at the same time as being connected to the Internet.	2 1 0	
	(b)	What does it mean to be off-line?		
			1 0	
	(c)	The ferry company sends an <i>e-mail</i> to a customer which is written in	U	
	(0)	CAPITAL LETTERS.		
		Why should they not have used capital letters?		
				1
				0
	(<i>d</i>)	On board each ferry there is a wireless Local Area Network.		
	(**)	State two advantages of using wireless technology.		
		1		
		2	2	
			1	
			0	
		TEND OF OUTGOLON DADED		
		[END OF QUESTION PAPER]		
		L.		

 $Page\ thirteen$





