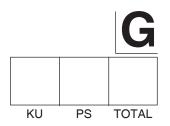
FOR OFFICIAL USE			

NATIONAL QUALIFICATIONS 2013

COMPUTING STUDIES STANDARD GRADE

General Level

FRIDAY, 26 APRIL 10.20 AM - 11.35 AM





0560/29/01

Full name of centre			Town	
Forename(s)		Surname		Number of seat
Date of birth Day Month	Year	Scottish car	ndidate number	
Read each question carefully.				
Attempt all questions.				
Write your answers in the spa	ce provide	d on the question	paper.	
Write as neatly as possible.				
Use blue or black ink.				
Answer in sentences whereve	r possible.			
Before leaving the examinatio may lose all the marks for this		u must give this b	ook to the Invigilat	or. If you do not, you



1. Jason runs a small bookshop and records the sales using a spreadsheet. Part of it is shown below.

	Α	В	С	D	E
1		Wee	kly sales figure	es	
2	Title	Author	Number Sold	Price	Income
3	A Dictionary	Chambon	5	£15·00	£75·00
4	One Day	Diana Nichols	25	£3·50	£87·50
5	Raoul, My Story	Raoul Medil	8	£4·99	£39·92
6	Without a Sign	Neris Redoubt	14	£4·99	£69·86
7					
8		Weekly Sales	52	Total Income	£272·28
9		Best Seller	25		

(a)	(i)	The formula entered in cell E8 was E3+E4+E5+E6.	Use a
		function to write this in a different format.	

,	
(· \
 (·

2

(ii) A formula is entered in cell E3. State the formula.

2

(b) The formula in cell E3 has been *replicated* down the column. State what is meant by replication.

1

(c) State **two** possible cell attributes that have been applied to cell C2.

1_____

2



(co	ntinued)	KU	PS
(<i>d</i>)	Jason wants to add a new book called, "Story of my Life", into his spreadsheet.		
	Explain how Jason could place this in the correct alphabetic order of title .		
			2
(e)	When Jason is finished updating the figures in his spreadsheet, he decides to produce a <i>bar chart</i> showing the figures for the Number Sold .	1 1	
	Explain why he has produced a bar chart.		
			1
(<i>f</i>)	The spreadsheet program that Jason is using is part of an <i>integrated</i> package.		
	Describe two possible benefits to Jason of using an integrated package.		
	1		
	2		2
			2
	[Turn over		



 $Page\ three$

PS

3

3

1

KU

2.	The local boatyard keeps a list of the boats it has for sale on a database
	A sample of the information is shown below.

Make	Stormcat
Model	Storm Angler
Year Built	2009
Length (m)	5.2
Width (m)	1.8
Colour	Red
Price (£)	3,600

(a)	A customer is le	ooking for a	boat made	by	Hillyard	that	costs	less	than
	£5,000.								

Describe how the database could be searched to display suitable boats.

(h)	Α	customer	is	interested	in	old	hoats

Describe how the data would be ordered to display this.

(c) The boatyard has purchased a new boat.

State what has to be done to add this data into the database.

Page four

DO NOT WRITE IN THIS MARGIN

Databases can contain images. State a suitable field type that can contain images.	State a suitable field type that can contain images. 1 The company has expanded and now has three boatyards throughout Scotland. State what has to be done to the database to show where each boat is located. As data is entered into the database it is stored in RAM rather than ROM. Explain why RAM is used instead of ROM.	ont	inued)	KU	
The company has expanded and now has three boatyards throughout Scotland. State what has to be done to the database to show where each boat is located. As data is entered into the database it is stored in RAM rather than ROM. Explain why RAM is used instead of ROM. 1	The company has expanded and now has three boatyards throughout Scotland. State what has to be done to the database to show where each boat is located. As data is entered into the database it is stored in RAM rather than ROM. Explain why RAM is used instead of ROM.) D	Databases can contain images.		
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ROM. Explain why RAM is used instead of ROM. 1	ROM. Explain why RAM is used instead of ROM. 1	_			
		Е	explain why RAM is used instead of ROM.		
		_		1	
[Turn over	[Turn over				
			[Turn over		



 $Page \, five$

(a) Corinne mainly uses a laptop computer. State one reason why she would find this more useful than using a desktop computer. [b) She mistyped one of her stories, entering the word "audio" when it should have been "video" throughout the story. (i) Name the feature that would allow her to make this change in one operation. [ii) Explain how she would make the changes described above. [cc) Corinne makes use of a spelling check. State two limitations of spelling checks. 1 2 (d) When starting a new page of her newspaper, Corinne makes use of a template. State two reasons why templates are used. 1 2	Cor	rinne is a journalist who works in Scotland for an online newspaper.	KU	PS
desktop computer. (b) She mistyped one of her stories, entering the word "audio" when it should have been "video" throughout the story. (i) Name the feature that would allow her to make this change in one operation. (ii) Explain how she would make the changes described above. (c) Corinne makes use of a spelling check. State two limitations of spelling checks. 1 2 (d) When starting a new page of her newspaper, Corinne makes use of a template. State two reasons why templates are used. 1 1	(a)	Corinne mainly uses a laptop computer.		
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(c) Corinne makes use of a spelling check. State two limitations of spelling checks. 1			_	2
State two limitations of spelling checks. 1	(c)			
2 (d) When starting a new page of her newspaper, Corinne makes use of a template. State two reasons why templates are used. 1 —————————————————————————————————	` '			
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1	(<i>d</i>)			
		State two reasons why templates are used.		
2		1		
2				
		2		



 $Page \ six$

3. (continued)

	the of the stories she writes make use of hyperlinks. The the purpose of a hyperlink.	KU	PS
		1	
Part	en new customers subscribe to the site they are given a user ID. of this user ID is a <i>check digit</i> . e the purpose of a check digit.		
		1	
	comers can only look at their own personal information held by newspaper.		
	e one group of people who are allowed to look at anybody's rmation held on a computer system.		
	newspaper sometimes sells lists of its customers details that have cribed to the website.	1	
(i)	State one benefit for the newspaper of selling these customer lists.		
			1
(ii)	State one benefit for the company that buys these customer lists.		
(iii)	Some subscribers do not want to be on these lists.		1
	Give one reason why they may not want to be on these customer lists.		
			1

Jo	hn is a	new Internet banking customer.	KU	PS
(a)) The	bank provides online help and online tutorials.		
	(i)	Describe what is meant by online help.		
	(ii)	Describe what is meant by online tutorials.	1	
			1	
(b)		access his account he has to enter a password.		
		en he enters his password it appears as ****** e a reason for this.		
				1
(c)) John	n can pay his bills using EFT .		
	(i)	State what EFT stands for.		
		E F Transfer	2	
	(ii)	State two reasons why shops encourage customers to use EFT.		
		1		
		2		
				2
(d)		ryption is used when data is transferred between John's computer the bank's computers.		
	State	e what is meant by the term encryption.		
			1	



 $Page\ eight$

DO NOT WRITE IN THIS MARGIN

(e) State one running cost that John will have to pay for Internet banking.	PS
(f) Give one reason why banks are encouraging customers to use Internet banking.	
1	
[Turn over	



 $Page\ nine$

The Peach Con The new computer brings a new e The latest TFT technology to enh Large main memory Wireless connection to the Internet (a) What is meant by a Graphical User In (b) The computer system has a TFT mo (i) State what TFT stands for. T Film (ii) State one reason why the comp (c) The computer system is advertised a memory. Select the amount of memory the con	a in Graphical User Interfaces nce your experience possible terface? 1	
(b) The computer system has a TFT mo (i) State what TFT stands for. T Film (ii) State one reason why the comp (c) The computer system is advertised a memory.	itor.	
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(ii) State one reason why the comp(c) The computer system is advertised a memory.	Γ2	
(c) The computer system is advertised a memory.		
memory.	ter system has a TFT monitor.	1
Select the amount of memory the con	s having a large amount of main	_
	puter is most likely to have.	
Tick (\checkmark) one box only.		
Tick		
4 Gigabyte of RAM		
4 Kilobyte of RAM		
4 Terabyte of RAM	1	

Page ten

5.	(co	ntinued)	KU	PS
	(d)	The computer makes use of a wireless connection to the Internet. State one advantage and one disadvantage of a wireless connection. Advantage		
		Disadvantage	2	
	(e)	The computer can make use of either CD-RWs or DVD-Rs. State one similarity and one difference between them. Similarity		
		Difference	2	
	(f)	Programmers use a high level language to write programs for the computer. State two common features of high level languages. 1		
			2	
		[Turn over		



Page eleven

PS

1

2

1

KU

(a)	Ann decides to use the Internet to discover information on her family.
	Which one of the following would be most useful for this task?
	Tick (\checkmark) one box only.

	Tick
Browser	
Search Engine	
Expert System	

6. Ann is creating a website on her family tree.

(b) Ann's grandmother gives her an old photograph album. State how Ann could transfer these photographs to her computer.

(c) Ann has altered some of the pictures that she has transferred to her computer. Here is an example.



Picture 1



Picture 2

State **two** alterations Ann has made to **picture 1** to result in **picture 2**.

1			
l			

(co	intinued)	KU	PS
(<i>d</i>)	Visitors to Ann's website can communicate with her either by using text messaging or by e-mail. State one advantage and one disadvantage of communicating by text messaging.		
	messaging.		
	Advantage		
	Disadvantage		2
(e)	State an item of hardware that Ann's computer needs to connect to the Internet.		2
(<i>f</i>)	Ann's website is only text based. She decides to add audio and video to her website.	1	
	State why she would do this.		
	[Turn over for Question 7 on Page fourteen	1	



Page thirteen

	est-books are updating their warehouse and are introducing mputer-controlled robotic trucks.	KU	PS
(a)	After the new design of the warehouse was completed, a final check was done on the layout using another type of program. State the type of program that could be used to check the plan to make sure the robots can move freely and are not obstructed.		
(b)	The company can use either <i>light guidance systems</i> or <i>magnetic guidance systems</i> to guide the robot trucks around the factory. Circle one of these and describe how it operates.	1	
	light guidance magnetic guidance Description		
		2	
(c)	The robot trucks work where there are humans present. State two <i>safety precautions</i> that may be used to protect the human workers.		
	1		
	2		2
(d)	When the robot trucks pick up the books, <i>feedback</i> is used to ensure that the books are not damaged. Explain what is meant by feedback.		
		2	
	[END OF QUESTION PAPER]		



 $Page\ four teen$

ADDITIONAL SPACE FOR ANSWERS

MAR	GIN
KU	PS
120	13



 $Page\ fifteen$

ADDITIONAL SPACE FOR ANSWERS

MARGIN		
	PS	

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