

[GIT41]

GIT41

THURSDAY 6 JUNE, MORNING

TIME

1 hour.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided. Do not write outside the box, around each page or on blank pages.

Complete in blue or black ink only. Do not write in pencil or with a gel pen. Answer all eleven questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 90. Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question. Quality of written communication will be assessed in questions **3(b)(ii)**, **5(c)** and 8(b).

8106

For	que	estic	on 1 insert the appropriate letter in the space provided.
1	(a)	ΑV	VAN is:
		Α	A World Area Network
		В	A Wide Applications Network
		С	A Wide Area Network
		D	A World Applications Network
			Answer [1]
	(b)	UR	L is:
		Α	Uniform Record Locator
		в	User Resource Locator
		С	User Record Locator
		D	Uniform Resource Locator
			Answer [1]
	(c)		ich statement is true about the use of virtual reality when training ine pilots?
		Α	The systems are inexpensive to produce and can be used to give pilots experience in a range of environments.
		В	The systems look like real aeroplanes and actually leave the ground during training exercises.
		С	The systems can be used for the ongoing training of experienced pilots but cannot always take every factor into consideration.
		D	The systems can be expensive to produce but can be dangerous for inexperienced pilots to use.
			Answer [1]
8106			

(d	I) A[DSL is:	Examiner Only Marks Remark
	Α	Asymmetric Data Subscriber Line	
	В	Asymmetric Digital Sensor Line	
	С	Asymmetric Digital Subscriber Line	
	D	Asymmetric Data Sensor Line	
		Answer [1]	
(e	e) Fo	our main features of a GUI are:	
	Α	Windows, Icons, Applications, Menus	
	В	Icons, Menus, Pointers, Windows	
	С	Software, Icons, Applications, Menus	
	D	Menus, Icons, Pointers, Software	
		Answer [1]	
(f)) W	hich statement is true about ROM?	
	Α	ROM can be written to but not read from.	
	В	ROM holds the programs currently being used by the computer system.	
	С	ROM can be read from but not written to.	
	D	Programs stored in ROM can be updated.	
		Answer [1]	
			Total Question 1
8106			[Turn over

(g)	Wh	ich statement is true about RAM?
	Α	RAM is non-volatile and the amount of RAM in a computer cannot affect its performance.
	В	RAM is non-volatile and the amount of RAM in a computer can affect its performance.
	С	RAM is volatile and the amount of RAM in a computer cannot affect its performance.
	D	RAM is volatile and the amount of RAM in a computer can affect its performance.
		Answer [1]
(h)	A	template is:
	Α	a program which helps the user to complete a task
	В	a standard layout for a document which can be reused
	С	a program which protects the computer against viruses
	D	a document which has been merged with a database
		Answer [1]
(i)	Se	ect the statement which is true about a LAN.
	Α	A LAN is a Logical Area Network, allows peripherals to be shared and has a file server for storing software.
	В	A LAN is a Local Area Network, allows data to be shared across the Internet and has a file server for storing software.
	С	A LAN is a Local Area Network, allows peripherals to be shared and allows users to share data.
	D	A LAN is a Logical Area Network, allows data to be shared and has a file server for storing software.
		Answer [1]

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G	(j)	Se	lect the statement which is true about EFTPOS.
		Α	It provides itemised receipts but does not allow payments to be processed.
		В	It allows barcodes to be scanned but does not allow payments t be processed.
		С	It provides itemised receipts but does not allow barcodes to be scanned.
		D	It provides itemised receipts and allows payments to be processed.
			Answer
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	Total Qu	lestion 1	
Answer [1]			
payments to be			
t allow barcodes to be			
es not allow payments to			

Examiner Only Marks Remark

2 Joanne has created a spreadsheet to calculate the bonus due to each of her employees. Below is a section of the spreadsheet.

	Α	В	с		D		E	F		G		н	1
1		_	Holiday B	onu	_	ulate	_	-	velle	-			
2	Forename	Surname	Hours Worked		ate of Pay r Hour		Total before Bonus	Bonus		onus mount	E	Total Earned	Taxable
3	Anne	Dellby	20	£	10.00	£	200.00	10%	£	20.00	£	220.00	Yes
4	Jack	Beale	8	£	6.00	£	48.00	5%	£	2.40	£	50.40	No
5	Alex	Bowen	30	£	10.00	£	300.00	10%	£	30.00	£	330.00	Yes
6	Ewan	Rawdon	15	£	8.00	£	120.00	10%	£	12.00	£	132.00	Yes
7	John	Mahon	17	£	9.00	£	153.00	10%	£	15.30	£	168.30	Yes
8	Marc	Smyth	10	£	7.00	£	70.00	5%	£	3.50	£	73.50	No
9			100			£	891.00		£	83.20	£	974.20	
10													
11													
12	Higher Bonus Rate	10%											
13	Lower Bonus Rate	5%											
14													
15	Tax Boundary	£100.00											

- (a) Write down the formula you would expect to find in cell H9.
- _ [1]

Examiner Only

Marks Remark

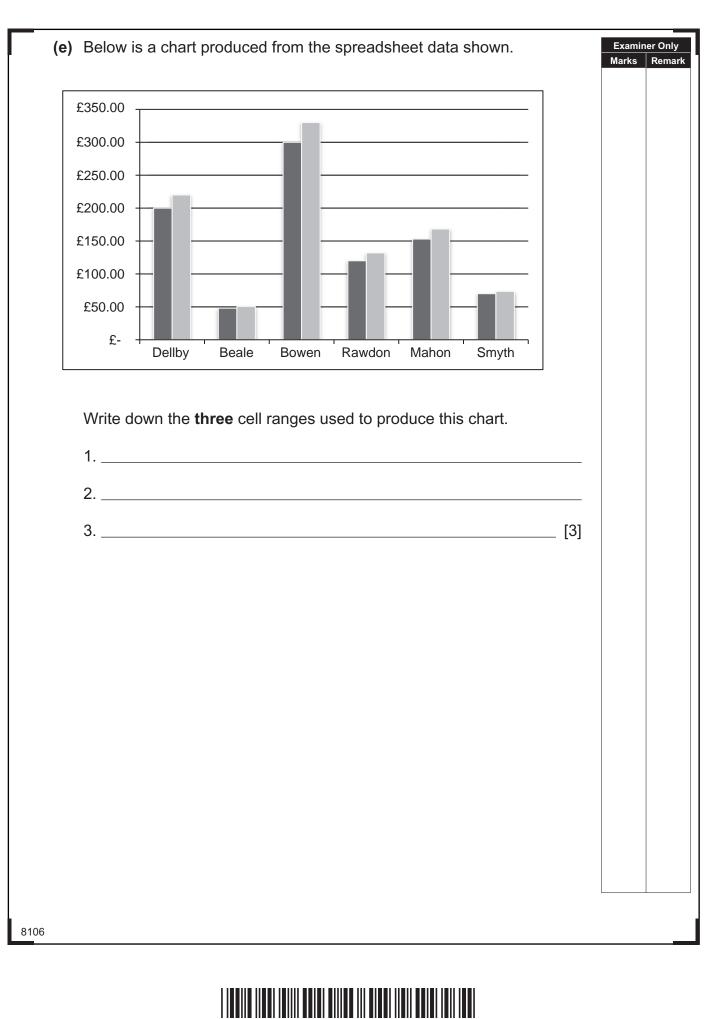
(b) If an employee's Total Earned is more than £100.00, they must pay tax. Tick (✓) one formula which you would expect to find in cell I3.

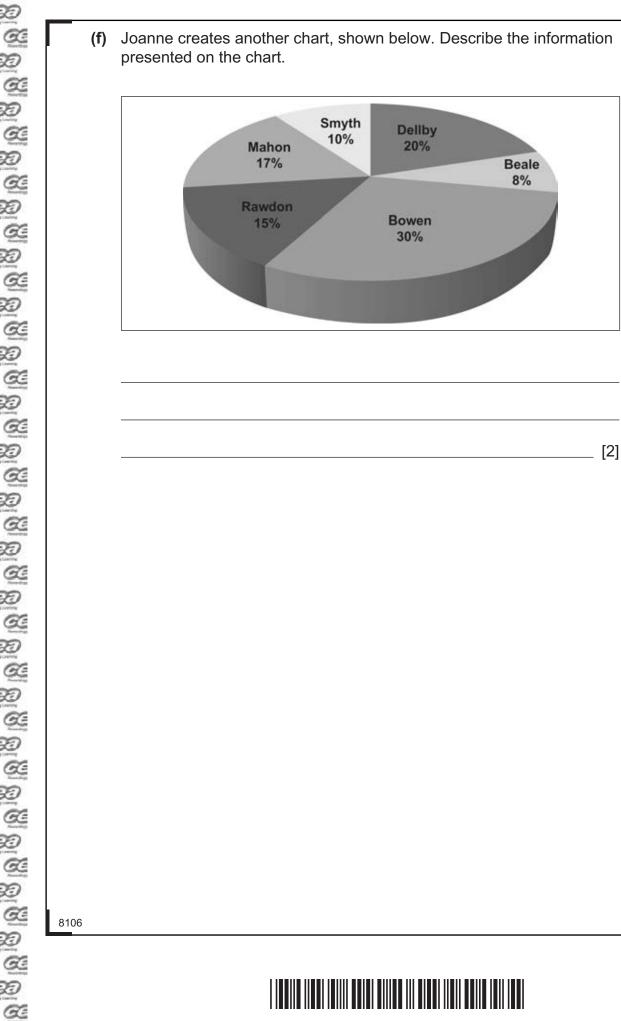
Formula	Tick (✓)
=IF(H3>100,"Yes", "No")	
=IF(H3<100,"Yes", "No")	
=IF(H3=100, "No", "Yes")	

[1]

8106

(c)	Absolute cell references have been used in the following formula:	Examin Marks	er Only Remark
	=IF(C3>10,\$B\$12,\$B\$13)		
	What is the advantage of using an absolute cell reference in any formula?		
	[2]		
(d)	Below is a printout created by Joanne.		
	Higher Bonus Rate 10% Lower Bonus Rate 5% Tax Boundary £ 100.00		
	Complete the Print <u>a</u> rea: entry below showing the cells selected to provide the printout.		
Page S Pag Print	e Margins Header/Footer Sheet		
	[2]		
8106		[Tur	n over





Examiner Only

Marks Remark

Total Question 2

[Turn over

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3		rm create digital and painted images of Northern Ireland pes. The company has its biggest client in the United States.	Examine Marks	er Only Remark
	Clie	ents in the United States wish to meet the artists, so JK Artform e proposed using video conferencing for this purpose.		
	(i)	What is video conferencing?		
		[1]		
	(ii)	What advice would you give to the company about the bandwidth required for video conferencing?		
		[2]		
	(iii)	Describe one way in which video conferencing is better for the environment.		
		[2]		
8106	 			

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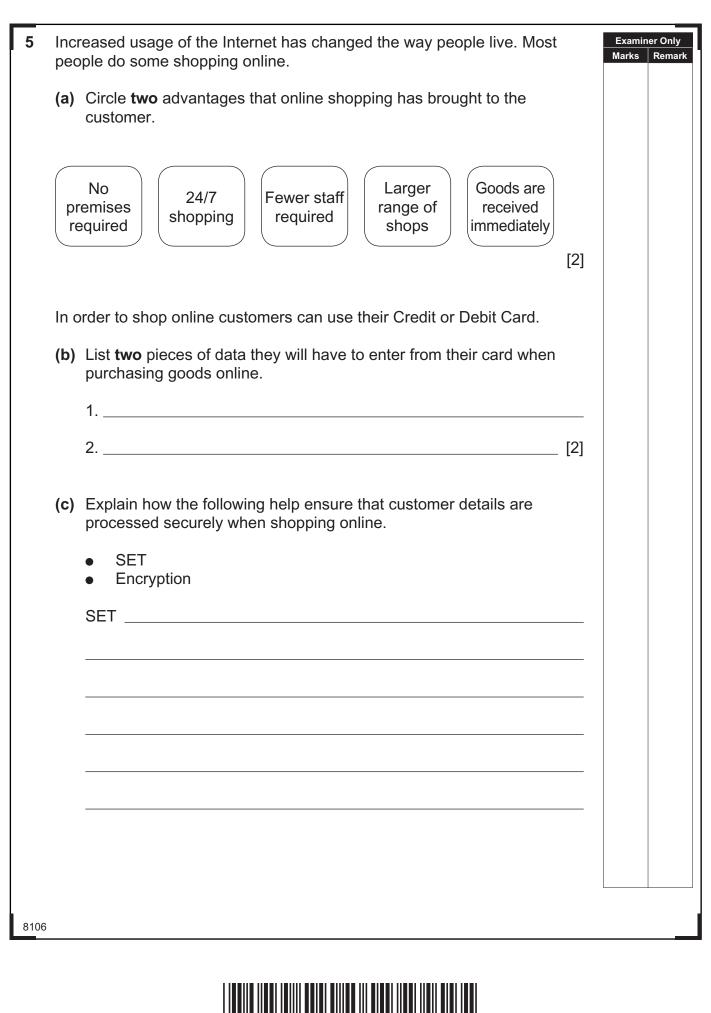
tel	e director of JK Artform has decided to employ a neworkers.	umber of	Examiner Marks R
(i)	The statements below are about teleworking. Wri FALSE beside each. The first one has been done		
	Statement	TRUE/FALSE	
Teleworki customers	ng is the use of the telephone to make sales to	FALSE	
Teleworki	ng allows employees to work flexible hours.	[1]	
Teleworke monitor.	r activity is more difficult for managers to	[1]	
Teleworkii workers.	ng allows for a lot of face-to-face contact between	[1]	
	Recruiting employees		
	 Training employees		

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	Marks
[6]	
	Total Q

4 Examiner Only GoMusic is a small business which provides professional music tutoring. Marks Remark People register using an online form. The following rules apply: People must enter their surname onto the form. People must be aged 10–18. People can set up a member's account. If they do, they must select a password of at least eight characters. People may enter a budget for tutoring but it must be in pounds, e.g. £15.00. Tick (\checkmark) one validation check for each item of data and give a reason for each choice in the space provided. Validation Check **Reason for choice** Data Presence check Range check (a) Surname Length check Type check [1] [1] Presence check Range check (b) Budget Length check Type check [1] [1] Presence check Range check (c) Age Length check Type check [1] [1] Presence check Range check (d) Password Length check Type check [1] [1] **Total Question 4** [Turn over 8106



Encryption		Examin Marks	R
	[6]		
		Total Qu	le
		[Tur	n
			_

- 6 Lucy is creating a database for her school project.
 - (a) Below is a section from the **Customer** table. Shade **one** record in the table.

Name	House number	Street	Town/City	Postcode
Mr Joe Watson	1	High Street	Belfast	BT4 6TD
Mr Jim Donald	31	Mary Street	Newry	BT24 6TL
Miss Amy White	52	West Street	Armagh	BT62 8TY
Ms Caitlin Rooney	2a	Church Walk	Lisburn	BT18 5FG
				[1]

(b) Lucy needs to include a primary key in the Video table below.

Title	Genre	Rating	Number in stock
High School Musical	Musical	U	4
The Secret of the Unicorn	Comedy	PG	5
The Lion King	Musical	U	3
Footloose	Musical	12A	6

What is a primary key?

_ [1]

8106

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Examiner Only Marks Remark The table below is a sample of data taken from the **Rental** table.

Rental No	Video ID	Member ID	Date Borrowed	Days Rented	Price per night
01	COM01	WAL01	20/05/2013	3	£3.50
02	CLA06	SMI01	20/05/2013	2	£3.00
02	MUS09	SMI01	20/05/2013	2	£4.00
03	THR11	BES02	24/05/2013	2	£3.50
04	DRA05	CLA05	26/05/2013	3	£3.00

(c) Suggest data types for the following fields in the **Rental** table.

Field Name	Data Type
Rental No	
Member ID	
Price per night	

[3]

Total Question 6

[Turn over

Examiner Only

Marks Remark

8106

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	Storage Device	Capacity			
	USB Memory Stick	2 Gigabyte			
	External Hard Drive	1 Terabyte			
	CD-R	650 Megabyte			
	plete the table below by in der of their capacity, larges	-	storage d	evices	
Rank	S	torage Device			
1.		(la	rgest cap	acity)	
2.					
3.		(sma	allest cap	acity)	
				[3]	
state	es has decided to use either ements that are true about	these storage devices.			
state State	ements that are true about a	these storage devices.	. Tick (✔) Tick (✔)		
state State	ements that are true about	these storage devices.			
State Both	ements that are true about a	these storage devices.			
State Both	ements that are true about a ments that are true about a ment and DVD-RW are r	these storage devices.			
State State Both DVD DVD	ements that are true about fement ment DVD-R and DVD-RW are r R can be written to only or	these storage devices.			

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8106

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8 Examiner Only Liz wants her friend to make a multimedia presentation to advertise her Marks Remark high school musical "South Pacific" to parents at the Open Evening. She wants parents to be able to select their own pathway through the presentation, so Liz creates this navigation plan to show how slides should be linked. **Title Slide** Menu The Story Cast Crew Dates (a) In the table below, place a tick (\checkmark) beside two presentation tools that would allow users to select different pathways through Liz's presentation. Tool Tick (✓) Timings **Buttons Hyperlinks** Master slide Templates [2] 8106

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Title Slide		Menu Slide
Production an School	Graphic	Menu Link Link Link Link
presentation.		
South P BY OLDTOWN HIGH SCHOOL	Pacific Cacific Stock/Thinkstock	Menu Image: Stock/Thinkstock Image: Stock/Thinkstock

(b)	Identify three elements of the completed presentation Liz should test and say how she would carry out each test.		
	Test 1		
	Test 2		
	Test 3		
	[6]		
		Total Q	uestic

clas	•		•	ents from his English icle and comment on	the Exami	1	
(a)	Give one rea task.	ison why instant	messaging wou	ld not be suitable for t	this		
					. [1]		
The	e students dec	ide to use a bulle	etin board for the	e task.			
(b)		a bulletin board	•	e sentences which or this task (not all			
	Offline	Replies	Online	Interactive			
	Bulletin board	ds are not		Not everyon	ie		
	in the group I	has to be		at the same time	to		
	take part in the discussion. Users can comment on the article and						
	read the		from othe	er group members at			
	anytime.				[3]		
As Vol	•	son the pupils wi	ll also link with a	another school using			
(c)	Explain to Ju	de what is mean	t by VoIP.				
					[2] Total C	luesti	
					ſTu	rn d	
					[10		

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art of	the form the school uses is shown below:	
	City High School	
	Pupil Number:	
	Address:	
	Telephone Number:	
	DOB://	
	How do you travel to school?	
	LUNCHES?	
	SCHOOL CANTEEN?	
	PUPIL NAME:	

ont:	
[1]	
ck Boxes:	
[1]	
structions:	
[1]	
Tat	al Quest

 Using the terms in the list below choose definition in the left-hand column (not al 		Examiner Onl Marks Rema
BACKUP SEARCH ENGINE F	IREWALL FIBRE OPTIC	
VIRTUAL LEARNING ENVIRONMENT	BLUETOOTH CSV	
OPTICAL MARK RECOGNITION	N MIDI RTF	
TOUCH SCREEN JPEG	SEARCH CRITERIA	
Definition	Term	
Software designed to protect a network from hacking via the Internet		
Technology which allows musical instruments to connect to a computer		
A software tool designed to deliver courses online		
A type of cable which sends data using light pulses		
A program used to find information on the Internet		
A wireless technology which can be used to connect a headset to a mobile phone		
A set of words used to find information on the Internet		
A compressed file format		
A method of data capture which detects the position of pencil marks on a form		
A copy of data currently held on a computer system		
	[10]	
THIS IS THE END OF THE	QUESTION PAPER	Total Question

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8106



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Question Number	Marks
1	
2	
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9	
10	
11	
Total Marks	

Examiner Number

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