Centre No.				Surname	itial(s)
Candida	te No.			Signature	
		•	Reference		Examiner's use only
	Team Leader's use only				

Information and Communication

Paper 1F

Technology

Foundation Tier

Friday 11 November 2005 – Morning

Time: 1 hour 30 minutes

Materials required for examination	Items included with question papers
Vil	Nil

Instructions	to	Candidates
mon actions	w	Canulates

In the boxes above, write your centre number and candidate number, your surname, initial(s) and

The paper reference is shown at the top of this page. Check that you have the correct question paper. Answer ALL the questions in the spaces provided in this question paper.

Information for Candidates

There are 12 pages in this question paper. All blank pages are indicated.

The total mark for this paper is 100. The marks for the various parts of questions are shown in round brackets: e.g. (2).

Advice to Candidates

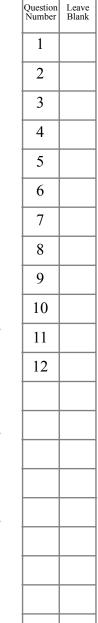
You are reminded of the importance of clear English and careful presentation in your answers. Include diagrams in your answers where these are helpful.

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Turn over

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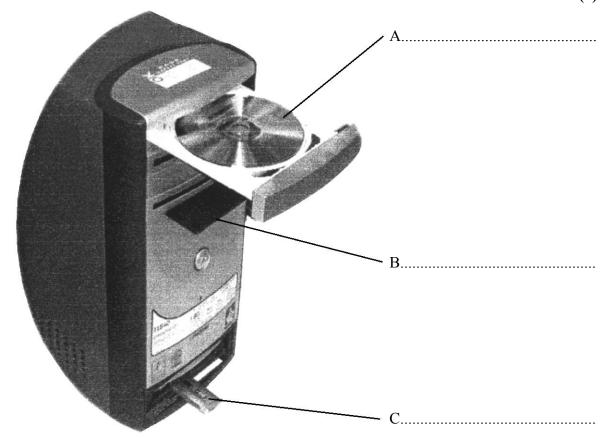


Answer ALL questions

Leave blank

- 1. The photograph shows three data storage devices.
 - (a) Name devices A, B and C.

(3)



(b) Name one other data storage device.

Q1

(1)

(Total 4 marks)

Q2

(Total 6 marks)

(3)

Leave blank			
	State two items of hardware that must be added to a PC to enable it to be used for video conferencing. Explain the purpose of each item.	(a)	3.
	Hardware item 1		
	Purpose		
	Hardware item 2		
	Purpose		
	(4)		
	Identify one advantage and one disadvantage of using video conferencing, rather than the telephone, for a conversation.	(b)	
	Advantage		
	Disadvantage		
Q3	(2)		
	(Total 6 marks)		
1			

(2) Describe how the teacher could move the graph from the spreadsheet to the poster in the desktop publisher. (2) One of the pupils takes a photograph of the experiment. The photograph is stored on the computer and is to be put on the poster as a background to the graph. Describe how this could be done. (4) (Total 8 marks)		Describe how the teacher could produce a graph from the spreadsheet.
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	(c)	the computer and is to be put on the poster as a background to the graph. Describe
(Total & marks)		
		(10tai o marks)

5.	Sor	ne of the o G to la	e terms listed can be u	w how file generations can be used for backing up a file. seed to complete the flowchart. Choose from the letters es. Each letter may be used once, more than once or not	Lea bla
		A	Father file.		
		В	Grandfather file.		
		C	Printout.		
		D	Recovery file.		
		E	Son file.		
		F	Transaction file.		
		G	Update.		Q5
				(Total 7 marks)	
	(a)	Advant Advant	age 1age 2	ng radio rather than cables for this purpose. (3)	
	(b)	State o hardwa	ne other piece of hare	e Internet through a network hub and a telephone line. rdware that is needed. Describe the function of the	
				(2)	
	(c)		one piece of software the function of the s	e that each teacher will need to access the Internet. software.	
		Softwar	re		
		Function	on		
				(2)	Q6

(Total 7 marks)

7. This spreadsheet is used to work out the pay for employees of a small company. Each employee is paid an hourly rate for working up to 40 hours a week. Extra hours are called overtime and earn a higher rate of pay called overtime rate.

	A	В	С	D	Е	F	G
1	Name	Hourly rate	Overtime rate	Hours worked	Overtime	Total pay	
2	Jones	£5.50	£8.25	43	3	£244.75	
3	Singh	£5.50	£8.25	38		£209.00	
4	Cohen	£6.00	£9.00	46	6	£294.00	
5	Kumar	£5.00	£7.50	40		£200.00	
6	Stone	£6.50	£9.75	36		£234.00	
7							
8						£1,181.75	Total payroll

Each cell is named by a column letter and a row number. For example the word Jones is in the cell named A2.

Each cell may also contain a function or a formula.

(a) Name a cell which contains a SUM function.
(1)
(b) Name a cell which contains a formula.
(1)
Each cell in the spreadsheet is formatted as text, number or currency.
(c) State the format for the following cells.
cell A4
cell C5
(2)
(d) If Mr Singh had worked for 42 hours, the contents of some cells would be changed. Name the cells which would be changed.
(4)
(e) The overtime rate is one and a half times the hourly rate. Give a formula which could be in cell C2 to calculate the overtime rate.
C2 =
(2)
(f) Explain how the formula could be most easily put into cells C3 to C6.

Q7

(2)

(Total 12 marks)

	tudent makes a website for a school chess club. The site has several pages of text and tures, joined by hyperlinks. There are no interactive features such as forms or rches.	
(a)	The student wishes to test the site before it is published. State three tests for the site. Give a reason for each test.	
	Test 1	
	Reason	
	Test 2	
	Reason	
	Test 3	
	Reason	
	(6)	
(b)	After the site has been published, the student wishes to monitor and evaluate its performance. Briefly describe two features which the student could add to the site that would help to monitor or evaluate it.	
	Feature 1	
		- 1
	Feature 2	
	(4)	
	(4)	
	(4)	
	(4)	
	(4)	
	(4)	
	(4)	
	(4)	

9.	(a)	A taxi company uses a database to hold details of its drivers and vehicles. Complete
		the following table about some of the fields within a driver's record. The first one
		has been done for you.

Field name	Example data	Туре	Size	Reason
Driver I.D.	24	Numeric	2	Example data shows a number and there are unlikely to be more than 99 drivers.
Vehicle colour	BLK			
Next service date for the vehicle	241205			
Telephone number for the driver	0207 758 5656			

(9)

(b) When data is entered into the database, it is validated by software. Choose two fields from the table above. For each field, name a validation technique which would be suitable and describe how the named validation would work.

Choice 1

Field name

Validation technique

Description

Choice 2

Field name

Validation technique

Description

Q9

(Total 13 marks)

L	eave	
h	lank	

10. A mail order company receives customers' orders written on printed slips. An example is shown in the diagram.

Customer name	Mr. J. Smith		Custo	mer refere	ence numb	er JS	3216
Item descr	ription	Item	code	Quantity	Of	fice use of	nly
					Date in	In stock	Checked
C D Storage Rack		TF66	51	1			
Shelf unit		HU72	17	2			
Keyboard cover		TK53	50	1			

	(2)
,	Instead of batch processing, transaction processing could be used. Give one advantage to the company of using transaction processing rather than batch processing.
	(1)
	The item code is used instead of the item description when processing the order. Give three reasons why this is beneficial to the company.
	Reason 1
-	Reason 2
-	Reason 3
	(3)
	The data on the slip is entered by a data entry clerk. A second clerk checks the entry and, if it is correct, signs the "Checked" column on the slip. State the name of this process and give the reason why the company requires it.
-	Name
-	Reason

Leave
blowle

(0)	
(a)	A computer manufacturing company has a website which offers a wide range of services to its customers. Two of these services are
	• the facility to obtain information about products
	• the facility to purchase a product on-line.
	State two other services which the company website could offer. For each service, state one advantage for the company and one advantage for its customers.
	Service 1
	Advantage to company
	Advantage to customers
	Service 2
	Advantage to company
	Advantage to customers
	Advantage to customers(6)
(b)	-
(b)	(6) The company joins a web ring. State the function of a web ring and give one
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(a)	Explain what is meant by a computer simulation.
	(2)
b)	State three benefits to the town of running the simulations.
	Benefit 1
	Benefit 2
	Benefit 3
	(3)
c)	State one limitation of the simulations.
-)	
. - /	(1)
	The results of the simulations must be presented to the town council before further development takes place. The report must present cost and traffic flow predictions. Describe a suitable method of presenting this type of information. Justify your answer.
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