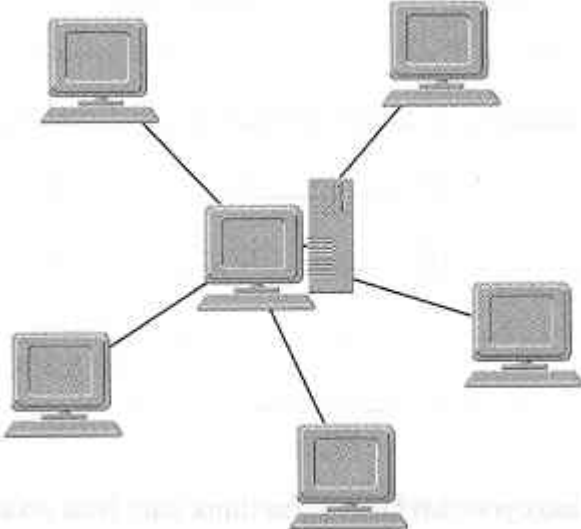


**GCSE Information Technology Paper 2**

Foundation Tier Revision Questions

1.	Place a tick in the correct column to show whether each device is used for Input or Output.																														
	<table border="1"> <thead> <tr> <th>Device</th> <th>Input</th> <th>Output</th> <th>Device</th> <th>Input</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td>Monitor</td> <td></td> <td></td> <td>Printer</td> <td></td> <td></td> </tr> <tr> <td>Mouse</td> <td></td> <td></td> <td>Scanner</td> <td></td> <td></td> </tr> <tr> <td>Light pen</td> <td></td> <td></td> <td>Plotter</td> <td></td> <td></td> </tr> <tr> <td>Speaker</td> <td></td> <td></td> <td>Digital camera</td> <td></td> <td></td> </tr> </tbody> </table>	Device	Input	Output	Device	Input	Output	Monitor			Printer			Mouse			Scanner			Light pen			Plotter			Speaker			Digital camera		
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2.	The main memory of a computer is made up of <b>RAM</b> and <b>ROM</b> .																														
(a)	(i) RAM stands for R..... A..... M.....																														
	(ii) ROM stands for R..... O..... M.....																														
(b)	(i) Describe what happens to the contents of RAM when the computer is switched off.																														
	(ii) What is RAM used for?																														
	(iii) What is ROM used for?																														
(c)	Magnetic disks are one type of backing storage.																														
	(i) Name two other type of backing storage.																														
	(ii) Give one reason for formatting a disk.																														
(d)	(i) Give one advantage of storing data on a floppy disk.																														
	(ii) Give one disadvantage of storing data on a floppy disk.																														

3.	<p>Sheila has bought a new computer.</p> <p>Suggest three different items of documentation that would be supplied with the computer.</p>												
4.	<p>Complete the following sentences by using the correct input devices from the list below.</p> <p><b>OMR;          OCR;          MICR.</b></p>												
	<p>(i)     A ..... device is used to read bank cheques.</p>												
	<p>(ii)    The National Lottery uses an ..... device to capture data.</p>												
	<p>(iii)   An ..... device is used to read postcodes on letters.</p>												
5(a)	<p>What is an operating system?</p>												
(b)	<p>Place a tick in the correct column to show whether each of the following statements about operating systems is True or False.</p> <table border="1" style="width: 100%; text-align: right;"> <thead> <tr> <th></th> <th>True</th> <th>False</th> </tr> </thead> <tbody> <tr> <td>An operating system is hardware.</td> <td></td> <td></td> </tr> <tr> <td>An operating system makes best use of the computer's memory.</td> <td></td> <td></td> </tr> <tr> <td>An operating system allows other programs to run</td> <td></td> <td></td> </tr> </tbody> </table>		True	False	An operating system is hardware.			An operating system makes best use of the computer's memory.			An operating system allows other programs to run		
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An operating system makes best use of the computer's memory.													
An operating system allows other programs to run													
(c)	<p>For each of the following, state a suitable operating system. Choose from the list below.</p> <p><b>Real time transaction;    batch processing;    real time.</b></p>												
	<p>(i) Controlling robots.</p>												
	<p>(ii) Book theatre tickets</p>												
	<p>(iii) Producing gas bills.</p>												
6.	<p>Computer systems are networked when they are linked together.</p>												
(a)	<p>Some networks are LANs.</p> <p>LAN stands for L..... A..... N.....</p> <p>Some networks are WANs.</p> <p>WAN stands for W..... A..... N.....</p> <p>Give an example of a LAN` .....</p> <p>Give an example of a WAN` .....</p>												

(b)	Give two advantages of a computer network over a number of standalone computers.
(c)	Networks can be arranged in different ways. Underline the correct name for the network shown below.
	
	The diagram shows a STAR / RING network.
(d)	Draw a diagram of a BUS network

7	The network manager is worried about the computers being stolen and data being lost through a fire.
(a)	Give two ways in which he can prevent the computers being stolen.
(b)	Give two ways in which he can protect the data in case of a fire.
8.	A company intends to use a computerised database to keep information on its customers. The database contains fields, records and files.
(a)	The customer ID is a keyfield. What's the purpose of a keyfield?
(b)	When data is entered into the database it is validated. Give one reason why it is validated.
(c)	Give three benefits to the company of using a computer system to store customer information instead of keeping files in a cabinet.
9.	The Data Protection Act contains eight principles.
(a)	Write down three of these principles.

(b)	Which of the following are exemptions from the need to register data? Place a tick in the correct box.  Data which is to be used:															
	<table border="1"> <tr> <td>(i)</td> <td>for national security;</td> <td><input type="checkbox"/></td> </tr> <tr> <td>(ii)</td> <td>to prevent crime;</td> <td><input type="checkbox"/></td> </tr> <tr> <td>(iii)</td> <td>when applying for a job;</td> <td><input type="checkbox"/></td> </tr> <tr> <td>(iv)</td> <td>for tax purposes.</td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/></td> </tr> </table>	(i)	for national security;	<input type="checkbox"/>	(ii)	to prevent crime;	<input type="checkbox"/>	(iii)	when applying for a job;	<input type="checkbox"/>	(iv)	for tax purposes.	<input type="checkbox"/>			<input type="checkbox"/>
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(c)	Describe two actions you can take if you think data held about you is wrong															
10	Give two crime covered by the Computer Misuse Act															
11	A travel agent uses a multiaccess online booking system to find and book holidays for his customers.															
(a)	Give two benefits of online booking systems for the customers															
(b)	He also uses video conferencing. In addition to his computer system, modem and phone line, give one extra item of hardware needed for video conferencing.															
12	Most computers have a graphical user interface (GUI). List four features of a GUI.															

13.	A shop sells a range of games. Information about each game is held on a computer database. Part of this database is shown below.																														
	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Type</th> <th>Age</th> <th>Cost(£)</th> <th>Release date</th> </tr> </thead> <tbody> <tr> <td>3641</td> <td>Formula One</td> <td>Driving</td> <td>11</td> <td>19.99</td> <td>25/06/02</td> </tr> <tr> <td>3642</td> <td>Jungle Route</td> <td>Adventure</td> <td>3</td> <td>19.99</td> <td>15/03/02</td> </tr> <tr> <td>3643</td> <td>Race for the Stars</td> <td>Action</td> <td>14</td> <td>39.99</td> <td>22/02/03</td> </tr> <tr> <td>3644</td> <td>Grand Auto</td> <td>Driving</td> <td>7</td> <td>39.99</td> <td>10/04/03</td> </tr> </tbody> </table>	Id	Name	Type	Age	Cost(£)	Release date	3641	Formula One	Driving	11	19.99	25/06/02	3642	Jungle Route	Adventure	3	19.99	15/03/02	3643	Race for the Stars	Action	14	39.99	22/02/03	3644	Grand Auto	Driving	7	39.99	10/04/03
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(a)	Write down the number of records shown above.																														
(b)	The database contains a variety of data types. Select the correct data type for each of the following fields.																														
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(c)	Write down fully the record that matches the criteria: Type = Driving <b>and</b> Cost(£) = 39.99																														
(d)	Give two reasons why the shop owner might want to update this database.																														
14.	A shop uses a stock master file to store details of products.																														
(a)	Verification is the name given for checking that data has been copied correctly. Give two different types of verification checks.																														
(b)	Name four different fields that could be part of the stock file in a shop.																														

(c)	When data has been entered into the system it is checked to make sure it is sensible and reasonable. This process is called validation.  Give two different types of validation checks that could be carried out on this data.
15.	Computers are used in the collection of data for weather forecasting.
(a)	One type of sensor used in weather forecasting is a temperature sensor. Give two other types of sensors used in weather forecasting.
(b)	Give two advantages of using a computer system to collect data for weather forecasting in comparison with traditional methods.
(c)	Robots are used to make cars in a factory. Give two different types of jobs done by robots when making a car.
(d)	Give two advantages of using robots to make cars.

16.	A doctor uses an expert system program to help diagnose patients illnesses.
(a)	Give two benefits of using an expert system
(b)	Give two other uses of a computer in a doctors surgery
17	A systems analyst has been hired to carry out an analysis of the current system and design a new system. Give two tasks the systems analyst would undertake at each of these stages.
(a)	Analysis of the current system
(b)	Design of the new system.
(c)	Implementing the new system
(d)	Maintaining the new system

18 (a)	<p>The electronic office uses many methods of electronic communication. Give 2 of these new methods and four each give one advantage of using it.</p> <p>Method 1</p> <p>Advantage</p> <p>Method 2</p> <p>Advantage</p>
(b)	<p>Give three health hazards in using a computer and how can they be prevented?</p>
(c)	<p>Give three impacts computers have had upon employment.</p>