

Oxford Cambridge and RSA Examinations



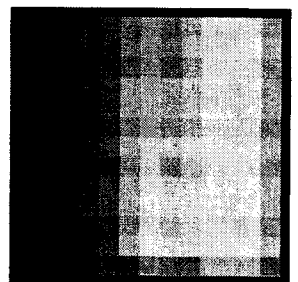
**GENERAL CERTIFICATE OF SECONDARY EDUCATION
GENERAL CERTIFICATE OF SECONDARY EDUCATION
(SHORT COURSE)**

**GCSE 1995
GCSE 1095**

INFORMATION AND COMMUNICATION TECHNOLOGY SPECIFICATION B

**MARK SCHEME FOR THE
UNITS
JANUARY 2004**

GCSE



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Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

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**General Certificate of Secondary Education
Information Communications Technology (1095/1995)
January 2004 Assessment Session**

Unit Threshold Marks

Unit		Maximum Mark	a*	a	b	c	d	e	f	g	u
2377F	Raw	40				37	33	29	25	21	0
	UMS	55				48	40	32	24	16	0
2377H	Raw	40	39	36	32	28	25	23			0
	UMS	80	72	64	56	48	40	32			0
2378	Raw	64	59	50	41	33	27	22	17	12	0
	UMS	120	108	96	84	72	60	48	36	24	0
2379	Raw	64	59	50	41	33	27	22	17	12	0
	UMS	120	108	96	84	72	60	48	36	24	0
2380F	Raw	55				36	29	23	17	11	0
	UMS	55				48	40	32	24	16	0
2380H	Raw	80	61	54	47	41	34	30			0
	UMS	80	72	64	56	48	40	32			0

Specification Aggregation Results

Overall threshold marks in UMS (i.e. after conversion of raw marks to uniform marks)

	Maximum Mark	A*	A	B	C	D	E	F	G	U
1095	200	180	160	140	120	100	80	60	40	0

	Maximum Mark	A*	A	B	C	D	E	F	G	U
1995	400	360	320	280	240	200	160	120	80	0

The cumulative percentage of candidates awarded each grade was as follows:

	A*	A	B	C	D	E	F	G	U	Total No. of Cands
1095	3.3	22.4	43.0	64.2	80.3	89.7	94.6	98.2	100	330
1995	0.0	1.9	18.1	38.9	62.0	77.8	93.1	99.1	100	216



RECOGNISING ACHIEVEMENT

Mark Scheme 2377/1
January 2004

Question Number	Answer Key		Question Number	Answer Key
1	A		21	B
2	A		22	C
3	A		23	D
4	B		24	B
5	C		25	C
6	C		26	A
7	B		27	D
8	B		28	D
9	D		29	D
10	C		30	B
11	C		31	B
12	B		32	D
13	D		33	C
14	D		34	D
15	A		35	D
16	D		36	C
17	A		37	A
18	D		38	C
19	A		39	D
20	B		40	D



Mark Scheme 2377/2
January 2004

Question Number	Answer Key		Question Number	Answer Key
1	D		21	B
2	B		22	A
3	A		23	C
4	B		24	C
5	B		25	D
6	B		26	A
7	A		27	C
8	A		28	D
9	C		29	D
10	B		30	D
11	C		31	C
12	C		32	C
13	D		33	D
14	D		34	A
15	B		35	B
16	C		36	A
17	B		37	B
18	A		38	D
19	B		39	A
20	D		40	C



RECOGNISING ACHIEVEMENT

Mark Scheme 2380/1
January 2004

- 1 (a) One mark for each correct answer. No marks for software names e.g. Word, Excel, etc. [4]

Stage	Use of ICT
Manufacture	Any of: Computer aided manufacture
Paying for goods	Any of: Electronic tills, point of sale payments (EPOS, EFTPOS)
Checking prices of goods	Any of: Bar code readers Databases of prices Electronic catalogues
Prevention of theft	Any of: Electronic tagging, in-store cameras

- (b) One mark for any of, up to 5, with one mark deducted for each over 5. [5]
 Word processor
 Spreadsheet
 Operating System
 Application package
 Virus checker
- 2 (a) Yes, as long as only one person uses the software at any time. [2]
 One mark for highlighting third para, 2nd point
- (b) One mark for agreement marked, one for answer.
 No, because the agreement states that you are not allowed to rent, lease or license the software without written consent from the publisher (4th para).
 Yes can get mark if must be clarified to get a mark – with permission. [2]
- (c) No, not without special permission from the publisher (3rd para, 1st point).
 Yes can get mark if must be clarified to get a mark – with permission. [2]
- (d) No, the software is for personal use only. [2]

3 (a) One mark for each correct advantage.

Sample answers:

- it can be accessed at any time of the day or night;
 - it is always up to date and contains pictures of clothes that maybe out of stock in the shop;
 - can pay direct through the site;
 - no pressure from sales staff to buy;
 - time to think and compare with other shops.
- [3]

(b) One mark for each correct advantage.

Sample answers:

- updating and printing paper-based catalogues is expensive;
 - payment can be received direct;
 - can be linked direct to stock control system;
 - can reach potential customers worldwide without delay.
- [3]

4 (a) One mark for each valid point made up to total of three.

Any three from:

- It is a mark put on every item available for sale
 - consisting of a number of bars of varying thickness with numbers beneath them.
 - It is read by a scanner during shopping or at the checkout
 - information that it provides is used to produce the customer receipt
 - to deduct the item from the shop's stock record.
 - a description of the item
- [3]

(b) One mark for each valid point made up to total of four.

Any 4 from:

Information consists of:

- the country that produced the product;
 - the company that produced the product;
 - a code for the product itself, for stock control and pricing;
 - a check digit to make sure that the barcode has been read correctly.
 - name of item
 - date
 - **No mark for price**
- [4]

- 5 (a), (b), (e), (g) are correct. [4]

If ticked more than 4, deduct one mark for each incorrect tick. NO MARKS if all boxes are ticked.

- 6 One mark for each identified user and

One mark for description identifying purpose [4]

Example: Self scan: User: customer, purpose: to get price or details of product or quick check out

Example: Keyboard user: User: shop assistant, purpose: to type in variable data or credit card details

- 7 One mark for each identified user and

One mark for description identifying purpose [4]

Example: Printer: User: the shop staff, purpose: to print out receipt

Example: Warning alarm user: User: shop staff, purpose: to ensure people are not stealing from the shop or to set off a fire alarm

- 8 One mark for each valid point made up to total of three.

Any 3 from:

- to allow the user a controlled level of access to the company's system;
- so that the user does not have access to confidential files that do not concern him/her;
- to provide security for financial transactions that are carried out through the system;
- to protect the system against misuse or theft of data;
- to allow the user a level of privacy or confidentiality in their work. [3]

- 9 (a) A computer virus is a program that can corrupt other applications software and computer operating systems.

It can replicate itself.

It can damage files

It is usually transferred from one computer to another by disk or email. [3]

- (b) One mark for each of the following, up to a maximum of three:

- use virus checking software;
- do not log onto the network;
- do not load data from unreliable disks;
- do not let anyone else use your system. [3]

10 1 mark for each valid point up to a maximum of 4 marks with reason worth one and 1 mark for expansion.

Example answers:

- Pictures of the fruits and vegetables can be placed on the concept keyboard as an overlay (1). This makes it quick and easy for the operators. (1)
- Traditional keyboards would be more time consuming to use (1) because operators would have to type in the names of the fruits and vegetables. (1)
- Concept keyboards are also easier to clean.(1)

[4]



RECOGNISING ACHIEVEMENT

Mark Scheme 2380/2
January 2004

1 One mark for each valid software choice. Example answers:

[5]

Retail Function	Software
<ul style="list-style-type: none"> planning the layout of a sales area 	CAD or Drawing package
<ul style="list-style-type: none"> a letter to customers announcing 24 hour opening 	Word processor Mail merge
<ul style="list-style-type: none"> financial planning over the coming 5 years 	Spreadsheet
<ul style="list-style-type: none"> comparing prices with other shops 	Spreadsheet or web browsers
<ul style="list-style-type: none"> designing an advertisement to recruit new staff. 	Graphics, DTP or drawing package

2 One mark for each valid point made up to total of four.

Any 4 from:

- there are fewer people in face to face jobs like counter staff and security staff;
- fewer in stock control;
- more people in website design and maintenance, systems design and maintenance, and in delivery services.
- Different type of jobs
- Need for re training
- Smaller workforce

[4]

3 One mark for method one for reason/way used.

Example answer:

- store cards that give access to special offers and promotions; (1)
- by turning shop into social meeting place (1), like many bookshops, offering café facilities and comfy chairs.(1)
- keeping records of personal names (1)
- promoting the importance of local shops (1)
- tailoring the stock specifically to the local area (1)
- open longer hours (1)

[4]

- 4 (a) No (1), because it is for personal use only and cannot sell to a third party without permission. (1)
Yes (1) can get mark if must be clarified to get a mark – with permission (1) [2]
- (b) No (1), because the agreement states that you are not allowed to rent, lease or licence the software without written consent from the publisher.(1) [2]
For personal use only (1)
- (c) No (1), not without special permission from the publisher. (1) [4]
write to the publisher (1) and they might grant me a licence (1)
Need an answer that gives an explanation.
- (d) No, because you are not allowed to reverse engineer, de-compile or dismantle the program. [2]
- 5 One mark for each valid point made up to total of three.
Example answer:
- to allow the user a controlled level of access to the company's system;
 - so that the user does not have access to confidential files that do not concern him/her;
 - to provide security for financial transactions that are carried out through the system;
 - to protect the system against misuse or theft of data;
 - to allow the user a level of privacy or confidentiality in their work. [3]
- 6 1 mark for each valid point up to a maximum of 4 marks with reason worth one and 1 mark for expansion.
- Example answer: Pictures of the fruits and vegetables can be placed (1) on the concept keyboard as an overlay(1).
- This makes it quick and easy for the operators (1).
- Traditional keyboards would be more time consuming to use(1) because operators would have to type in the names of the fruits and vegetables(1).
- Concept keyboards are also easier to clean. (1) [4]

7 One mark for any chosen spreadsheet with justification.

[9]

Marks for the justification. One mark for each justification point as long as it relates specifically to the chart (up to 6 marks). But 2 marks are reserved for referring to other spreadsheets.

A maximum of 6 marks if candidates have not made any comparisons to other spreadsheets.

8 One mark for each valid communication system backup up by reason up to three marks. Up to 3 marks for any of the following: email; video conferencing; interactive web site, fax. A maximum for the reasons.

[5]

Example: Video conferencing (1), reason: to discuss the new product (1)

9 (a) One mark for each valid point made up to total of two. One for situation two for expansion.

Example answer:

- to maintain temperature of freezer/chill cabinets;
- to control security tags on goods;
- for automatic door opening.

[2]

(b) Input, output process or decisions.

[3]

10 (a), (b), (e), (g) are correct.

11 (a) A computer virus is a program that can corrupt other applications software and computer operating systems.

It can replicate itself.

It can damage files

It is usually transferred from one computer to another by disk or email.

[3]

(b) One mark for each of the following, up to a maximum of three:

- use virus checking software;
- do not log onto the network;
- do not load data from unreliable disks;
- do not let anyone else use your system, eg password.

[3]

12 (a) Any fact contained in the lead to the question,

Example answers:

- house owner
- £ 50,000 mortgage
- bank account
- address
- uses mail order services.

[4]

(b) Data has no meaning (1)

Information is data with some meaning (1)

[2]

13 Marks will be awarded for:

- Inclusion of important information (3)

Should include: address, logo, links to other pages, name of company

- Layout (3)

Should include: different fonts, movies, colours, screen layout, large headings, images, navigation system

- Inclusion of essential elements (3)

Should include, hyperlinks, search facilities, house style, home page

[9]

14 (a) One mark for each. Ref field (1) as it is a unique number (1).

[2]

(b) One mark for information one mark for use.

Example answers:

- That the customer has Internet (1) so the store can target market their Internet site (1), which store the customer visits to help target market promotions in their area. (1)
- Name of customer(1) to be friendly and use mail merge.(1)

[4]