

Candidate Name	Centre Number	Candidate Number



**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**  
**General Certificate of Secondary Education**

**INFORMATION AND COMMUNICATION TECHNOLOGY**  
**PAPER 3 (FOUNDATION TIER)**

**2359/01**

Tuesday                      **7 JUNE 2005**                      Morning                      1 hour

Candidates answer on the question paper.  
 No additional materials are required.

**TIME**    1 hour

**INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer **all** the questions.

Write your answers, in blue or black ink, in the spaces on the question paper.

**INFORMATION FOR CANDIDATES**

The number of marks is given in brackets [ ] at the end of each question or part question.

No marks will be awarded for using brand names of software packages or hardware.

The total number of marks for this paper is **60**.

FOR EXAMINER'S USE	
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14	
<b>TOTAL</b>	

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**This question paper consists of 9 printed pages and 3 blank pages.**

Answer all questions.

- 1 (a) Identify these two ways of presenting data for direct input into a computer.



Way 1 .....

Way 2 .....

[2]

- (b) Underline two storage devices.

monitor

Hard disk drive

bar-code reader

central processing unit

mouse driver

CD-RW drive

[2]

- (c) Underline two items which would be needed by a family's computer.

control devices

operating system

graphics tablet

central processing unit

sensors

robotic arm

[2]

- 2 A newsletter for supermarket staff is to be produced using a computer. It will include pictures of staff working.

Give three advantages of using a digital camera to obtain the pictures.

Advantage 1 .....

.....

Advantage 2 .....

.....

Advantage 3 .....

.....[3]

- 3 A spreadsheet is used to calculate the cost of a disco. Fig. 1 shows part of the spreadsheet. Fig. 2 shows the formulas used in this part of the spreadsheet.

	A	B	C	D	E
1	Year 10 Disco				
2					
3	<b>Tickets Sold</b>	<b>Ticket Income</b>	<b>Food Income</b>	<b>Disco Cost</b>	<b>Total In</b>
4	10	£35.00	£12.00	£150.00	£47.00
5	20	£70.00	£24.00	£150.00	£95.00
6	30	£105.00	£36.00	£150.00	£141.00
7	40	£140.00	£48.00	£150.00	£188.00

Fig. 1

	A	B	C	D	E
1	Year 10 Disco				
2					
3	<b>Tickets Sold</b>	<b>Ticket Income</b>	<b>Food Income</b>	<b>Disco Cost</b>	<b>Total In</b>
4	10	= A4*3.5	= A4*1.2	150	= B4+C4
5	20	= A5*3.5	= A5*1.2	150	= B5+C5
6	30	= A6*3.5	= A6*1.2	150	= B6+C6
7	40	= A7*3.5	= A7*1.2	150	= B7+C7

Fig. 2

- (a) State **two** other cells that would change if the number 30 in row 6 was altered.

Cell 1 .....

Cell 2 .....[2]

- (b) Describe how you would test that the formulas were working as expected.

.....  
 .....  
 .....  
 .....[2]

4 Both RAM and ROM are used in computers.

(a) State what ROM is.

.....[1]

(b) Give **one** example of when ROM is used.

.....[1]

5 Microprocessors are used in automatic washing machines.

Identify **two** other household appliances that have a microprocessor. For each, state **one** use of the microprocessor in the appliance.

Household appliance 1 .....

Use .....

.....

Household appliance 2 .....

Use .....

.....[4]

6 Explain why it is often necessary to use encryption when transmitting data across the Internet.

.....

.....

.....

.....[2]

7 Below is the front cover of a leaflet for a wildlife park.



(a) State the best type of computer package to produce this leaflet.

.....[1]

(b) The illustrations were taken from the clip-art library that was part of the package.

Give three advantages of using the clip-art library for this purpose.

Advantage 1 .....

.....

Advantage 2 .....

.....

Advantage 3 .....

.....[3]

(c) Give three features of a Graphical User Interface (GUI) that would make changing the contents of the leaflet easier for an inexperienced computer user.

Feature 1 .....

.....

Feature 2 .....

.....

Feature 3 .....

.....[3]

8 State **three** different methods a systems analyst might use to collect information about a system that the systems analyst is investigating.

Method 1 .....

Method 2 .....

Method 3 .....[3]

9 A company uses batch processing to produce wage slips for its employees.

(a) Describe 'batch processing'.

.....  
.....  
.....  
.....[2]

(b) Give **two** reasons why 'real-time processing' is **not** used for this task.

Reason 1 .....

.....

Reason 2 .....

.....[2]

10 Before creating a database the file structure has to be designed.

Give **two** items that need to be included in the design of the file structure.

Item 1 .....

.....

Item 2 .....

.....[2]



- 12 The final stage in the systems life cycle process is evaluation. Identifying the good and bad points of the final system is one part of this evaluation stage.

Describe **two** other processes undertaken during the evaluation stage.

Process 1 .....

.....

.....

.....

Process 2 .....

.....

.....

.....[4]

- 13 A Training Officer is to give a multi-media presentation. She has a laptop computer with a fast processor, graphics card and the appropriate software already installed.

Describe the use of **two** extra items of hardware she might use for developing and displaying the presentation.

Item 1 .....

.....

.....

.....

.....

Item 2 .....

.....

.....

.....

.....[4]



14 An aid organisation wishes to keep in touch with its representatives throughout the world. As each of its representatives already has access to a computer they have decided to investigate the use of video conferencing.

(a) State **two** additional items of hardware the representatives would need for video conferencing.

Item 1 .....

Item 2 .....[2]

(b) (i) Give **two** advantages to the organisation of using video conferencing in this situation.

Advantage 1 .....

.....

Advantage 2 .....

.....[2]

(ii) Give **two** disadvantages to the aid worker of using video conferencing in this situation.

Disadvantage 1 .....

.....

Disadvantage 2 .....

.....[2]





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