

Candidate Name	Centre Number	Candidate Number										
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OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY
PAPER 3 (FOUNDATION TIER)

2359/01

Friday **20 JANUARY 2006** Afternoon 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 ONLY		
Question Number	Maximum Marks	Marks Awarded
1	3	
2	5	
3	5	
4	4	
5	4	
6	2	
7	3	
8	8	
9	6	
10	6	
11	7	
12	3	
13	4	
TOTAL	60	

This question paper consists of 10 printed pages and 2 blank pages.

Answer **all** questions.

1 Underline **three** types of software.

programming language **database** **hard disk drive**
random access memory **touch screen** **operating system** [3]

2 Below are five statements.

Tick whether each statement is true or false.

	True (✓)	False (✓)
A GUI uses icons		
DVD players use microprocessors		
MICR is used to read bar codes		
OCR is used to recognise scanned text		
ROM loses its contents when the computer is switched off		

[5]

3 Joanna has a number of text files, music files, and video files stored on the hard disk drive of her computer. She wants to transfer these files onto removable storage media. She can use CDs, DVDs or floppy disks.

(a) Draw a line to link each medium to its storage capacity.

Medium	Storage capacity
CD	1.44 Mb
DVD	650 Mb
Floppy disk	4.7 Gb

[3]

(b) Give **two** reasons for transferring the files onto these removable storage media.

Reason 1

.....

Reason 2

.....

[2]

- 4 Bar-code readers, graphics tablets, optical mark readers (OMR) and touch screens are all used to input data to a computer.

Draw a line to link each input method to its everyday use.

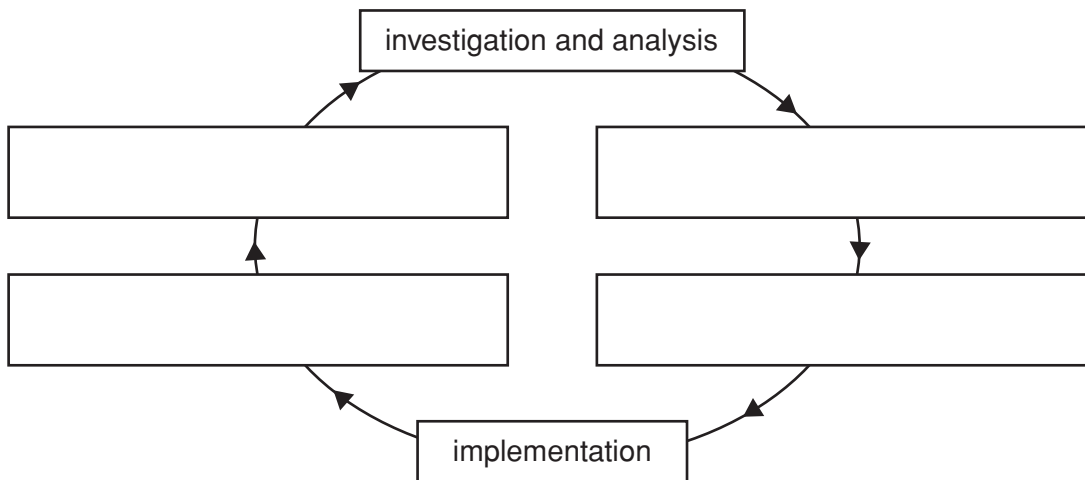
Input method	Everyday use
Bar-code readers	In fast food restaurants
Graphics tablets	In designers' offices
OMR	At supermarket checkouts
Touch screens	In school registration systems

[4]

- 5 Below is a diagram showing the main stages of the systems cycle.

Complete the diagram using the words in this list.

design maintenance monitoring development and testing



[4]

6 When data is entered into a computer database it may be coded.

Give **two** reasons why this is done.

Reason 1

.....

Reason 2

..... [2]

7 Once data is stored on a computer it may be encrypted.

What is encryption and why is it used?

.....

.....

.....

.....

.....

..... [3]

8 A school has an intranet for the staff and students to use. Some of the files stored on the intranet are confidential.

(a) Describe ways these confidential files can only be accessed by staff.

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]

(b) Give **two** reasons why a school may have an intranet.

Reason 1

.....

Reason 2

..... [2]

Staff and students also have access to the Internet.

(c) Give **two** reasons why a school might also need access to the Internet.

Reason 1

.....

Reason 2

..... [2]

9 A local authority is planning to send a booklet to disabled people in the area. It will give details about the services the authority offers.

(a) Describe **two** benefits to some disabled people of receiving this information as a multi-media presentation on a CD instead of a booklet.

Benefit 1

.....

.....

.....

Benefit 2

.....

.....

.....[4]

(b) Give **two** disadvantages for some disabled people of receiving the information on a CD.

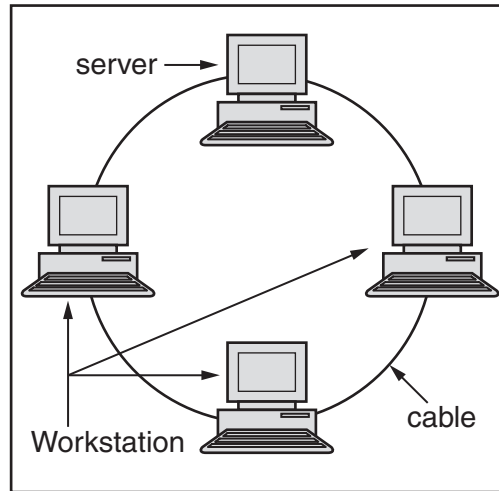
Disadvantage 1

.....

Disadvantage 2

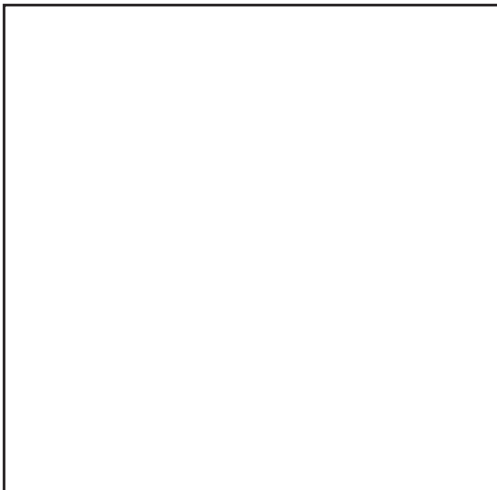
.....[2]

- 10 A Local Area Network (LAN) has a server and three workstations. One possible topology for this network is shown in Fig.1.
Draw, name and label **two** other possible topologies.

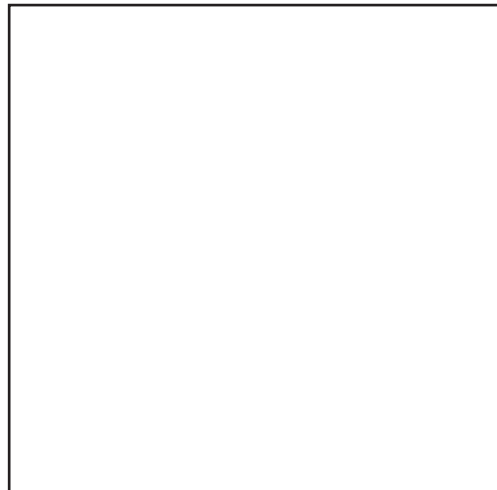


Name: **Ring**

Fig. 1



Name:



Name:

[6]

(b) Give **two** advantages to the garage of using mail-merge to send out information to its customers rather than typing each letter individually.

Advantage 1

.....

Advantage 2

..... [2]

12 The first stage in the creation of a new ICT system is to investigate the existing system.

Fill in the table below stating which investigation method would be used in the given circumstances.

When appropriate	Investigation method
When a large number of people need to be consulted	
To confirm what actually happens in the present system	
When a few key personnel need to be consulted	

[3]

13 The use of mobile phones to take and send digital pictures is now common.

(a) Give **two** benefits of taking and sending pictures using a mobile phone.

Benefit 1

.....

Benefit 2

..... [2]

(b) Give **two** problems that may arise from using a mobile phone to take pictures.

Problem 1

.....

Problem 2

..... [2]

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