

Candidate Name	Centre Number	Candidate Number



OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY
PAPER 3 (HIGHER TIER)

2359/02

Friday **20 JANUARY 2006** Afternoon 1 hour 15 minutes

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

TIME 1 hour 15 minutes

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	4	
2	6	
3	7	
4	3	
5	6	
6	4	
7	14	
8	4	
9	6	
10	6	
TOTAL	60	

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

Answer **all** questions.

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

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

Reason 1

.....

Reason 2

.....[2]

Staff and students also have access to the Internet.

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

Reason 1

.....

Reason 2

.....[2]

2 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]

(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]

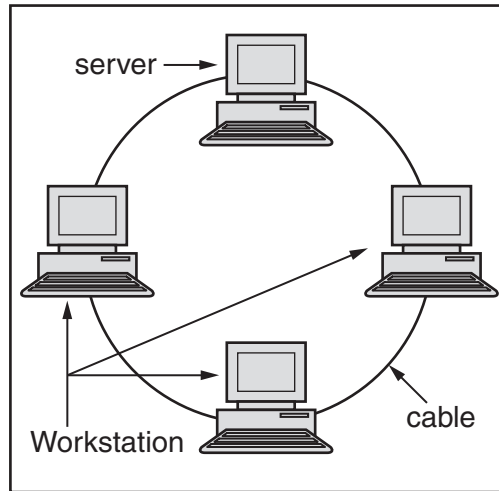
4 The first stage in the creation of a new ICT system is to investigate the existing system.

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	

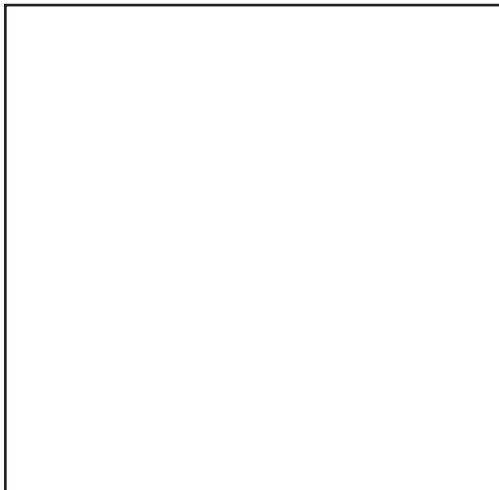
[3]

- 5 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.

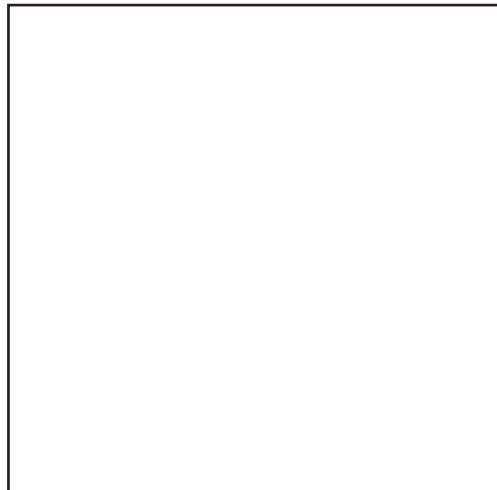


Name: **Ring**

Fig. 1



Name:



Name:

[6]

6 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]

7 A dentist's surgery needs to collect information about new patients. Each new patient would be asked to give their name, address, date of birth, and details about their last visit.

(a) In the box below design a screen input form that will allow this information to be entered as accurately as possible.

[5]

(b) State **three** different principles of the Data Protection Act which the dentist would need to comply with. Explain why each is important.

Principle 1

This is important because

.....

.....

.....[3]

Principle 2

This is important because

.....

.....

.....[3]

Principle 3

This is important because

.....

.....

.....[3]

8 Bar codes contain check digits.

(a) State the purpose of a check digit.

.....[1]

(b) Explain how check digits are used in bar codes.

.....

.....

.....

.....

.....

.....[3]

9 An organisation has decided to replace its old manual administration system with a computerised system.

Explain **three** tasks that need to be carried out during the design of the new system.

Task 1

.....

.....

.....

Task 2

.....

.....

.....

Task 3

.....

..... [6]

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