



Rewarding Learning

General Certificate of Secondary Education  
2011

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Candidate Number

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## Information and Communication Technology

Full Course

Paper 2

Foundation Tier



G5802

[G5802]

THURSDAY 16 JUNE, AFTERNOON

### TIME

1 hour.

### INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Complete in blue or black ink only. **Do not write in pencil or with a gel pen.**

Answer **all eleven** questions.

### INFORMATION FOR CANDIDATES

The total mark for this paper is 80, including a maximum of 4 marks for quality of written communication.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
QWC	

<b>Total Marks</b>	
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6865

Examiner Number

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JUN11G5802

- 1 (a) An examinations officer has created a relational database to store data about students who are taking examinations. Part of the database is shown below.

**STUDENT TABLE**

Student ID	Surname	Forename	Date of Birth	Gender
1000	Devlin	Anna	10/01/1995	F
1001	Kane	John	15/03/1995	M
1002	Walsh	Jack	12/09/1994	M
1003	Taylor	Eleanor	01/01/1993	F
1004	Smyth	Lesley	26/05/1993	F
1005	Doherty	Mark	01/04/1993	M

**EXAMINATION TABLE**

Examination Code	Examination Name
GCSE01	ICT
GCSE02	Mathematics
GCSE03	Geography
GCSE04	History
GCSE05	Art
GCSE06	French

John Kane is taking the Geography and Art examinations.  
Eleanor Taylor and Anna Devlin are taking the ICT examination.  
Mark Doherty and Jack Walsh are taking the French examination.

Examiner Only	
Marks	Remark







2 Data capture enables data to be entered onto a computer system.

(a) An example of this is **OMR**.

(i) What do the letters **OMR** stand for?

\_\_\_\_\_ [1]

(ii) Give **ONE** application of **OMR**.

\_\_\_\_\_  
\_\_\_\_\_ [1]

(iii) List **TWO** advantages of using OMR instead of entering data using a keyboard.

1. \_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_  
\_\_\_\_\_ [2]

(b) A student has lost the electronic copy of his coursework but still has a printed copy. He is going to input it again using **OCR**.

(i) What do the letters **OCR** stand for?

\_\_\_\_\_ [1]

(ii) What **input** device will he need?

\_\_\_\_\_ [1]

Examiner Only

Marks Remark







4 Doctor Brown, a local doctor, has installed an electronic appointments system and is going to use email instead of a fax machine.

(a) List **TWO** advantages of using email instead of fax.

1. \_\_\_\_\_

2. \_\_\_\_\_ [2]

(b) Give **ONE** reason why Doctor Brown should keep the fax machine.

\_\_\_\_\_ [1]

(c) Give **TWO** pieces of information that could be obtained from the electronic appointment system.

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_ [2]

(d) In order to remind patients about their appointment time, the doctor has decided to buy a SMS system.

In the table below, tick (✓) the **TWO** statements that are **TRUE** about SMS.

Statement	Tick (✓)
SMS means Short Message Service	
SMS can only be sent using a mobile phone	
SMS can be received when a call is in progress	
SMS allows users to send photographs	

[2]

Examiner Only

Marks Remark





(e) Doctor Brown has bought a **PDA**.

(i) What do the letters **PDA** stand for?

\_\_\_\_\_ [1]

(ii) List **TWO** features of the PDA which make use of **WAP**.

1. \_\_\_\_\_

2. \_\_\_\_\_ [2]

Examiner Only

Marks Remark

Total Question 4

[Turn over





- 6 The Canal View Hotel is a new hotel. Internet access is to be provided in the bedrooms for all guests.

The manager is unsure if he should install a **PSTN** or an **ADSL** link for his guests.

- (a) (i) What do the letters **ADSL** stand for?

\_\_\_\_\_ [1]

- (ii) How does **ADSL** differ from **PSTN**?

\_\_\_\_\_ [1]

He also wants to provide wireless Internet access for guests in the hotel lobby.

- (b) (i) Give **ONE** disadvantage of using wireless Internet connections.

\_\_\_\_\_  
 \_\_\_\_\_ [1]

- (ii) Give **ONE** advantage of using wireless Internet connections.

\_\_\_\_\_  
 \_\_\_\_\_ [1]

He must then choose an ISP (Internet Service Provider).

- (c) List **TWO** facilities provided by an **ISP**.

1. \_\_\_\_\_  
 \_\_\_\_\_  
 2. \_\_\_\_\_  
 \_\_\_\_\_ [2]

Examiner Only

Marks Remark

Total Question 6

[Turn over



7 Alan is the owner of a website design company. He employs staff from all over the UK using teleworking.

(a) (i) State **TWO** problems Alan might have if all of his staff are employed using **teleworking**.

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_ [2]

(ii) State **ONE** disadvantage **to the staff** of teleworking.

\_\_\_\_\_

\_\_\_\_\_ [1]

(b) Alan wants to have an interactive conversation with all of his employees at the same time.

In the table below, place a tick (✓) beside **TWO** methods of communication that would allow him to do this.

Method of communication	Tick (✓)
Instant Messaging	
Video conferencing	
Fax	
Email	

[2]

Examiner Only	
Marks	Remark

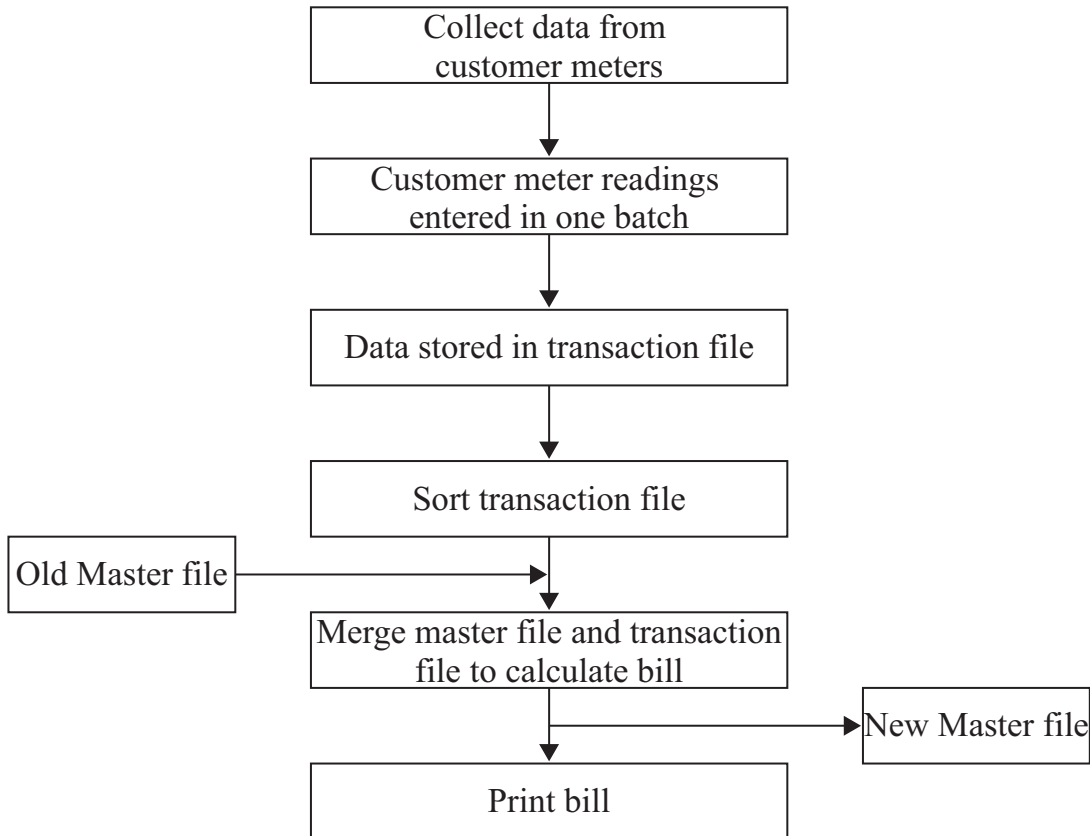






- 9 Electricity companies and gas companies use batch processing to create bills for their customers.

The following diagram describes the main stages involved in the creation of customer bills.



- (a) State why the transaction file must be sorted into the same order as the master file.

\_\_\_\_\_

\_\_\_\_\_ [1]

Examiner Only	
Marks	Remark

[Turn over









11 The UK is undergoing a massive changeover to Digital TV

(a) State **THREE** advantages **to the viewer** of digital TV over analogue TV.

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_

\_\_\_\_\_ [3]

The move towards Digital TV will have an impact on TV companies and viewers.

(b) (i) State **ONE** disadvantage to **TV broadcasting companies** of introducing Digital TV.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [1]

Examiner Only

Marks

Remark





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