

**GCSE (HIGHER TIER)
INFORMATION AND
COMMUNICATION TECHNOLOGY**

Paper 3

WEDNESDAY 6 JUNE 2007

H 2359/02

Morning

Time: 1 hour 15 minutes

Additional materials:
No additional materials are required.



Candidate
Name

Centre
Number

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Candidate
Number

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INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and Candidate number in the boxes above.
- Answer **all** the questions.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- Do **not** write in the bar code.
- Do **not** write outside the box bordering each page.
- WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.

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

Question No.	Max. mark	Mark
1	1	
2	7	
3	6	
4	3	
5	7	
6	6	
7	2	
8	3	
9	7	
10	6	
11	7	
12	5	
TOTAL	60	

This document consists of **11** printed pages and **1** blank page.

1 The term 'network topology' describes how a computer network is arranged.

Give the name of **one** network topology.

..... [1]

2 Screen layouts are to be designed for a new on-line cinema booking system.

Bank card number, date of performance and customer name are three items of data that should be included on an input screen.

(a) Produce a design for the input screen in the area below.

Marks will be awarded for:

- including appropriate items
- user friendly design
- clear layout.

The Ocean Cinema

[5]

(b) Give **two** validation checks that could be used to make sure the data entered is reasonable.

Check 1

.....

Check 2

..... [2]

3 A company that uses the Internet stores confidential data on its computer system.

Describe **three** methods that could be used to prevent unauthorised access to the data.

Method 1

.....

.....

Method 2

.....

.....

Method 3

.....

..... [6]

4 A company installs a new computer system. At 9.00am on Monday the old system is switched off and the new system is put into use.

(a) What name is give to this method of changeover?

..... [1]

(b) State **two** problems that may arise as a result of using this method of changeover.

Problem 1

.....

Problem 2

..... [2]

5 (a) Describe how an expert system is used by a mechanic to diagnose faults in a car.

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.....
.....
..... [4]

(b) Describe the advantages to a newly qualified mechanic of using such an expert system.

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..... [3]

6 A car manufacturer recalls a number of faulty cars. The manufacturer decides to use the mailmerge option in a word processor to prepare letters to customers.

(a) Describe how the manufacturer uses mailmerge to prepare the letters.

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.....
..... [4]

(b) Give **two** advantages of using mailmerge for this task.

Advantage 1
.....
Advantage 2
..... [2]

7 State **two** actions that the Computer Misuse Act makes illegal.

Action 1
.....
Action 2
..... [2]

8 Text 1 shows part of a novel handwritten by an author.

The Adventure

It was raining as she stormed out of the house and slammed the door behind her. There was nothing for it, she had made her bed and would now have to lie in it. She couldn't go back and apologise - well not just yet anyway. A flash of lightning lit up the street as she set off hoping she would find some shelter. Then her mind registered what she had seen in the brightness. It was a man in armour sitting astride a huge war horse!

Text 1

Text 2 shows the same text after a secretary has typed it into a word processor.

The Adventure

It was reigning as she stormed out of the house and slammed the door behind her. Their was nothing four it, she had made her bed and wood now hvae to lie in it. She couldn't go back and apologise – well not just yet anyway. A flash of lightning lit up the street as she set off hopping she would find some shelter. Then her mind registered what she had seen in the brightness. It was a man in armur sitting astride a huge war horse!

Text 2

(a) What should the secretary have done before printing out the work to make sure that the two underlined words were correct?

.....
..... [1]

(b) The secretary should have verified the word-processed work.

Describe how the secretary could have verified the work.

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

10 With the advances in the use of ICT many people can now work from home.

Describe **three** advantages to an employee of working from home.

Advantage 1

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.....
.....

Advantage 2

.....
.....
.....

Advantage 3

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.....
.....

[6]

11 An increasing number of business meetings are held using video conferencing instead of face-to-face meetings.

Discuss the benefits and drawbacks of holding meetings by video conference.

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[7]

- 12 Visually impaired and hearing impaired students often use multimedia presentations in their lessons.

Explain why using multimedia presentations is a benefit to these students.

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..... [5]

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