

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**Advanced GCE**

**INFORMATION AND COMMUNICATIONS TECHNOLOGY 2517**

**ICT Systems and Systems Management**

Monday **24 JANUARY 2005** Morning 1 hour 30 minutes

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

Candidate Name	Centre Number	Candidate Number										
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**TIME** 1 hour 30 minutes

**INSTRUCTIONS TO CANDIDATES**

- Write your name in the space above.
- Write your Centre number and Candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers, in blue or black ink, in the spaces on the question paper.
- Read each question carefully and make sure you know what you have to do before starting your answer.

**INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this paper is 90, of which 4 marks are allocated to the assessment of the quality of written communication.
- You will be awarded marks for the quality of written communication where an answer requires a piece of extended writing.
- No marks will be awarded for using brand names of software packages or hardware.

FOR EXAMINER'S USE		
<b>1</b>		<b>8</b>
<b>2</b>		<b>13</b>
<b>3</b>		<b>30</b>
<b>4</b>		<b>27</b>
<b>5</b>		<b>8</b>
<b>QWC</b>		<b>4</b>
<b>TOTAL</b>		<b>90</b>

**This question paper consists of 15 printed pages and 1 blank page.**

Answer **all** questions.

A company provides information for students who wish to take a year out when they leave school. The company runs a website which contains information and advice about adventure holidays, community work and voluntary work overseas.

- 1 (a) Explain why it is important for the information on the website to be accurate and up-to-date.

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**(b) (i)** What is a Management Information System (MIS)?

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**(ii)** Describe how the company would make use of a MIS.

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2 (a) The student can access the website from school using an ISDN connection. At home the student uses a modem.

(i) Identify which of these methods of connection is digital.

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(ii) Describe the differences between an analogue and a digital connection to the Internet.

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(b) The network manager at the company is worried that confidential data held on the server might be accessed by the students. Explain **two** methods which could be used to protect the data.

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(c) Give **two** health problems related to working with ICT and state how each might be caused.

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The company decides that it must upgrade its systems to embrace new technology.

3 (a) Explain the advantages for the company in using the latest technology to run the website.

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(b) The company is to change the website design. Explain how each of the following affects the design:

(i) perception

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**(ii)** attention

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**(iii)** memory

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**(iv)** learning.

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(d) The students using the new website will require support. Describe the support the company could provide:

(i) before the installation of the new website

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(ii) after the installation of the new website.

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(d) Serious injuries have been received by some people in the unrest. Describe ways in which technology can help in the case of:

(i) lost limbs

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(ii) damaged eyes.

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