



**GENERAL CERTIFICATE OF SECONDARY EDUCATION
INFORMATION AND
COMMUNICATION TECHNOLOGY
SPECIFICATION B (1995)**

2380/02/PRE

ICT B (Higher Tier)

**Tuesday 18 January 2011
Morning**

Duration: 1 hour 30 minutes



INFORMATION FOR CANDIDATES

- This document consists of 4 pages. Any blank pages are indicated.

INSTRUCTIONS TO EXAMS OFFICER/INVIGILATORS

- Do not send this insert for marking; it should be retained in the centre or destroyed.

Notes for Guidance

Teachers

Candidates are allowed to take their own notes into the examination room. You may support and guide them but the research they take into the examination room must be their own work.

The notes they take into the examination room must **not** contain comments or marking by the teacher.

- Unit 4 is an examination paper in two tiers that will assess sections **5.3**, **5.4** and **5.5** of the specification.
- Candidates must also be fully conversant with the knowledge outlined in Unit 1: Core knowledge underpinning the use of ICT.
- It is unlikely that candidates who have not carried out the practical work associated with Unit 2 and Unit 3 will have gained sufficient insight into the application of ICT systems to successfully attempt this assessment.
- Candidates may be given the pre-release material at any point, but it must be given to them **at least four weeks** before the examination.
- Candidates can be given support and advice in the interpretation of the materials and the use of ICT in the content identified.
- Candidates do not have to be directly supervised while they are researching or producing work in response to the pre-release materials.
- Flow chart stencils should be available to candidates for use during the examination.
- Teachers should check that materials taken into the examination are appropriate and comply with the 'Regulations for the Conduct of Examinations'.

NOTE: Where examination questions relate to the pre-release research activities, candidates will only be awarded marks when they answer the question asked.

Materials taken into the examination must not be attached to or submitted with the answer booklet.

Candidates

You may take your **own** notes into the examination room. This will normally consist of four A4 sheets. Remember you should not just quote from your notes. Your notes are there to help and guide you. Marks will be awarded for correctly answering the questions set.

The research sheet is provided to help you to structure your notes. The examination papers do not have specific questions on all the content outlined in the research sheet, however following the research sheet will help you to revise the correct areas covered by the examination papers.

- You may take a flow chart stencil into the examination room.
- Textbooks are **not** allowed in the examination room.

Pre-release 2011

Our Future

Our Future is an organisation of young people who work together to monitor environmental changes. *Our Future* is a registered charity. Members share the information with other members through the use of new technology.

Our Future members are encouraged to gather information about organisations that pollute the planet. They monitor the activities of companies around the world. They also help raise funds for the charity.

New members can sign up to *Our Future* on its website. The website also contains regular blogs and information gained by its members.

Not everyone agrees with the way that *Our Future* operates. A number of people feel that the organisation causes unrest and that the use of amateurs to gather data means that *Our Future* often publishes inaccurate information on its website.

You should explore:

- The use of modern communication technologies to monitor and share information including:
 - The WWW
 - Mobile and hand held systems
 - Sensors
- Methods and issues of sharing information globally and the ways technologies can help communicate with people of different cultures and languages
- Technology that can be used to help the members of *Our Future* to keep in touch with other members around the world even when they are in remote locations, eg
 - Satellite phones
 - Tweets
 - Blogs
 - VoIP
 - Social networking sites
 - Video sharing
 - SMS
 - Instant messaging (IM)
 - News feeds
- How technology can be used in remote locations, eg
 - GPS
 - Solar panels
- Website structure and design including:
 - The use of web forms
 - Website security issues and methods used to ensure that it is a real human user logging into a system
- Collection and storage of data including:
 - The effects of inaccurate data
 - Ways of ensuring data accuracy
 - Data capture methods
 - Data entry, verification and validation
 - Database structure

- Networks including:
 - Methods used to secure access
 - File and folder protection
 - Hardware
 - Wired/wireless
- The digital divide
 - Implications on lifestyle
- The uses of new technology by pressure groups including:
 - Dissemination of information
 - Organisation of events
- Accuracy of information obtained from different sources

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