

Tuesday 17 January 2012 – Morning

**GCSE INFORMATION AND COMMUNICATION TECHNOLOGY
SPECIFICATION B (1995)**

2380/02/PRE Externally Set Test (Paper 2) (Higher Tier)

Duration: 1 hour 30 minutes



INFORMATION FOR CANDIDATES

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

INSTRUCTION TO EXAMS OFFICER/INVIGILATOR

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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 2012

Greene Tech

Greene Tech is a company started by Richard Greene. They specialise in environmentally friendly products. Greene Tech is an environmentally friendly company. The company uses new technology to communicate with its customers wherever possible. It also uses new technology during the manufacturing processes.

New customers can sign up to Greene Tech on its website. The website also contains regular blogs and information on new products.

The Greene Tech staff are given mobile devices when they join the company so that they are always contactable.

You should explore:

- Technology that can be used to help companies keep in touch with customers
 - Blogs and Tweets
 - Video sharing
 - SMS
 - Social networking sites
 - Newsfeeds
 - Electronic newsletters
 - IM
- How mobile devices have impacted on working practices and can add to pressures on employees
- On line newsletters and newsfeeds
- Computer viruses
- The use of data flowcharts
- 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
 - Automated systems
- Collection and storage of data including:
 - The effects of inaccurate data
 - Ways of ensuring data accuracy
 - Data capture methods
 - Data protection
 - Data entry, verification and validation
 - Database structure
 - Use of image capture devices
- Web Hosting
 - Bandwidth
 - Database integration
 - Security
- Software selection
 - The use of macros and shortcuts
- The use of new technology to reduce the environmental impact of a company.

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