Monday 4 June 2018  Morning  Time allowed: 1 hour 30 minutes

Instructions
• Use black ink or black ball-point pen. Use pencil only for drawing.
• Fill in the boxes at the top of this page.
• Answer all questions.
• You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
• Do all rough work in this book. Cross through any work you do not want to be marked.

Information
• The marks for questions are shown in brackets.
• The maximum mark for this paper is 80.
• Question 7 should be answered in continuous prose.
  In this question you will be marked on your ability to use good English, organise information clearly and use specialist vocabulary where appropriate.
Section A

Answer all questions in the spaces provided.

1 Complete the following list of the components of an ICT system. [4 marks]

<table>
<thead>
<tr>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>People</td>
</tr>
<tr>
<td>Hardware</td>
</tr>
</tbody>
</table>

2 The increasing use of email can have disadvantages, for example the large amount of spam generated.

State two other disadvantages of using email. [2 marks]

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
Describe the differences between local area networks and wide area networks. [6 marks]

Question 3 continues on the next page
3 (b) Intranets and extranets are networks. Describe their similarities and differences. [4 marks]
4 (a) A music track stored on a smartphone is data which was originally in the form of sound. Explain, using examples, other forms that data can take. [6 marks]

Question 4 continues on the next page
Data are often coded before being entered into an ICT system. For example every railway station in the UK has its own code such as Leicester, which is coded as LEI. Give reasons why coded data are used in ICT systems. [4 marks]
Section B

Answer all questions in the spaces provided.

5 (a) The characteristics of users that need to be considered when designing interfaces that allow interaction with ICT systems are:

- physical characteristics, including age
- experience
- environment of use
- task to be undertaken.

Explain, using examples, why characteristics of users must be considered by designers of interfaces to enable players to interact with games consoles.

[8 marks]
5 (b) Discuss the possible consequences of playing computer games for individuals and society.

[12 marks]
6 (a) Describe the benefits of creating a home network of computers. [6 marks]
6 (b) Home computer networks might store large amounts of data, much of which could be irreplaceable if lost.

Discuss what factors you would need to consider when backing up data on your home computer network in order to prevent permanent loss of data.

[8 marks]
The ready availability of advanced ICT systems now makes it very easy for people to telework.

Discuss the concept of teleworking, including in your discussion:

- how ICT has enabled people to telework
- the benefits that individuals can gain from teleworking
- benefits to society of the increased use of teleworking
- any negative aspects of teleworking.

[20 marks]

In this question you will be marked on your ability to use good English, to organise information clearly and to use specialist vocabulary where appropriate.

This space is available for planning your answer, if you wish to use it.
END OF QUESTIONS

Copyright information

For confidentiality purposes, from the November 2015 examination series, acknowledgements of third party copyright material will be published in a separate booklet rather than including them on the examination paper or support materials. This booklet is published after each examination series and is available for free download from www.aqa.org.uk after the live examination series.

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders may have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgements. If you have any queries please contact the Copyright Team, AQA, Stag Hill House, Guildford, GU2 7XJ.

Copyright © 2018 AQA and its licensors. All rights reserved.