|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | For Examiner’s Use | | | Examiner’s Initials | | | Question | Mark | | **1** |  | | **2** |  | | **3** |  | | **4** |  | | **5** |  | | **6** |  | | **7** |  | | **8** |  | | **9** |  | | **10** |  | | **11** |  | | **12** |  | | **13** |  | | **14** |  | | **15** |  | | **16** |  | | **17** |  | | **TOTAL** |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Centre number** |  |  |  |  |  | **Candidate number** |  |  |  |  | | **Surname** |  | | | | | | | | | | | **Forename(s)** |  | | | | | | | | | | | **Candidate signature** |  | | | | | | | | | | | **Programming Language** | **C# (7516/A)** | | | | | | | | | |   **AS COMPUTER SCIENCE** |
| **Paper 1** |

Tuesday 21 May 2019

Morning

Time allowed: 1 hour 45 minutes

Instructions

* This is the Electronic Answer Document (EAD). Answer **all** questions by entering your answers into this document on screen. You **must save** this document at regular intervals.
* Before the examination begins, type the information needed in the boxes **at the top of this page**.
* Before the examination begins, type the information needed in the boxes **in the footers** (page 2 onwards) of this EAD.

**During the examination**

* You may print pages of your EAD. A print monitor will collect and deliver your print-out to you. You must **not** collect your own print-out.

**Exceptions**

* If you experience difficulty inserting screen shots into your EAD then you may print these separately and attach to the back of the EAD with a reference in the correct place in the EAD. Ensure that your **Centre Number**, **Candidate Name** and **Candidate Number** are on each sheet.

**At the end of the examination**

* Save for the last time and print your EAD on one side only (not double-sided). A print monitor will collect and deliver your print-out to you. Check that your details are in the footers of every page. Write them in if they are not.
* Enter your signature on the front cover.
* Staple or tie all pages together in the top left-hand corner of the EAD.
* Hand in **all** pages of the EAD to the Invigilator.

**Warning**

* No extra time is allowed for printing and collating.
* It may not be possible to credit an answer if your:

– details are not printed on every page as instructed above

– screen captures are not legible to the Examiner.

Answer **all** questions.

You **must save** this document at regular intervals or you may lose your work.

**Section A**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 01** | | | | |  |  |
| **0** | **1** |  |  |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **3** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 02** | | | | |  |  |
| **0** | **2** | **.** | **1** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | |  |
| **0** | **2** | **.** | **2** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **5** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Question 03** | | | | |  | *Leave blank* |
| **0** | **3** | **.** | **1** |  | |  |
| **0** | **3** | **.** | **2** |  | |  |
| **0** | **3** | **.** | **3** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **13** |

**Section B**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 04** | | | | |  |  |
| **0** | **4** | **.** | **1** |  | |  |
| **0** | **4** | **.** | **2** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **2** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 05** | | | | |  |  |
| **0** | **5** |  |  |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **1** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 06** | | | | |  |  |
| **0** | **6** |  |  |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **1** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 07** | | | | |  |  |
| **0** | **7** |  |  |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **1** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 08** | | | | |  |  |
| **0** | **8** |  |  | |  | | --- | |  | |  | |  | |  | | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **2** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 09** | | | | |  |  |
| **0** | **9** | **.** | **1** |  | |  |
| **0** | **9** | **.** | **2** |  | |  |
| **0** | **9** | **.** | **3** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **3** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 10** | | | | |  |  |
| **1** | **0** | **.** | **1** |  | |  |
| **1** | **0** | **.** | **2** |  | |  |
| **1** | **0** | **.** | **3** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **5** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 11** | | | | |  |  |
| **1** | **1** |  |  |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **3** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 12** | | | | |  |  |
| **1** | **2** |  |  |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **2** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 13** | | | | |  |  |
| **1** | **3** |  |  |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **5** |

**Section C**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 14** | | | | |  |  |
| **1** | **4** | **.** | **1** |  | |  |
| **1** | **4** | **.** | **2** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **4** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 15** | | | | |  |  |
| **1** | **5** | **.** | **1** |  | |  |
| **1** | **5** | **.** | **2** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **3** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 16** | | | | |  |  |
| **1** | **6** | **.** | **1** |  | |  |
| **1** | **6** | **.** | **2** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **10** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | *Leave blank* |
| **Question 17** | | | | |  |  |
| **1** | **7** | **.** | **1** |  | |  |
| **1** | **7** | **.** | **2** |  | |  |
| **1** | **7** | **.** | **3** |  | |  |
| **1** | **7** | **.** | **4** |  | |  |
|  |  |  |  |  | |  |
|  |  |  |  |  | | **12** |

**If you have made any separate screen captures, put a reference in the correct place in this Electronic Answer Document.**

**Ensure that your Centre Number, Candidate Name and Candidate Number are on each sheet.**

**Attach them to the back of this document.**

NB: The AQA logo is provided for use only in the Electronic Answer Document for the 2019 A-level Computer Science Paper 1 (7516/1) examination and must not be used for any other purpose.

Copyright © 2019 AQA and its licensors. All rights reserved.