ENGLAND GCSE COMPUTER SCIENCE EDEXCEL · UNIT 1 · 10 QUESTIONS

Computational Thinking and Algorithms — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A tablet app hides detail that does not matter to focus on what matters. What is this called?**

- A Pattern recognition
- B Decomposition
- C Abstraction
- D Compression of the app data

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2 **A laptop follows a flowchart to decide whether a password is correct. Which symbol holds the password check?**

- A The input output symbol used for data only
- B The process symbol
- C The terminator symbol
- D The decision symbol

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3 **Which of these is the most efficient way to find an item in a long sorted list?**

- A Bubble sort
- B Linear search
- C Checking every item in a random order
- D Binary search

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4 **A binary search checks a sorted list of 64 items. After one check, at most how many items can still need checking?**

- A 32
- B 16
- C 64
- D 640

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5 **A bubble sort sorts a list of 5 items. How many passes does it need at most?**

- A 40
- B 4
- C 3
- D 5

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6 **A program sets total to 0, then adds each number in the list 20, 10, 5 in turn. What is the value of total at the end?**

- A 35
- B 36
- C 350
- D 34

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7 **How many start points does a flowchart have?**

- A None
- B Two
- C One for each decision in the algorithm
- D One

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8 **In Edexcel pseudocode, which loop checks its condition after each repeat?**

A FOR

B IF used for selection only

C WHILE

D REPEAT UNTIL

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9 **What is pseudocode?**

A A real programming language that runs on a computer, in some situations

B A way of testing a program to find its errors

C A way of writing an algorithm using structured English

D A visual way of showing an algorithm with symbols

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10 **In a merge sort, what happens when two sorted halves are merged?**

A Their items are compared and put in order into one list

B The smaller half is thrown away and the larger kept, in some situations

C Their items are added together to make new values

D Their items are swapped one by one until they match

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ANSWER KEY

1. C
2. D
3. D
4. A
5. B
6. A
7. D
8. D
9. C
10. A

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