ENGLAND GCSE COMPUTER SCIENCE OCR · UNIT 3 · 10 QUESTIONS

Impacts 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 robot needs to repeat a task until its battery is low. Which loop should its program use?**

- A FOR
- B WHILE
- C IF used for selection only
- D SUBROUTINE used for reusable code only

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2 **A smartphone app breaks a journey into smaller steps to plan a route. What is this called?**

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

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3 **A merge sort splits a list of 16 items into two halves. How many items are in each half?**

- A 8
- B 4
- C 80
- D 16

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4 **Why is a bubble sort slow on a long list?**

- A It checks only the middle item of the list
- B It can only sort lists of 5 items
- C It needs the list to be sorted first
- D It needs many passes and many comparisons

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5 **What does DIV do in OCR pseudocode?**

- **A** It gives the remainder of a division, in some situations
- **B** It gives the whole number part of a division
- **C** It multiplies two numbers together
- **D** It adds two numbers together

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6 **A bubble sort sorts a list of 6 items. How many passes does it need at most?**

- **A** 5
- **B** 4
- **C** 6
- **D** 50

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7 **What does the Data Protection Act 2018 do?**

- **A** It stops anyone copying software or music
- **B** It controls how personal data is collected stored and used
- **C** It makes it legal to access any computer
- **D** It gives everyone the right to use any data, in some situations

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8 **The pseudocode sets total to 0, then for i = 1 to 6 it adds i to total. What is the value of total at the end?**

- **A** 210
- **B** 22
- **C** 21
- **D** 20

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9 **A program sets count to 0 then adds 1 three times. What is count at the end?**

- A 0
- B 1
- C 3
- D 30

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10 **Why can targeted adverts be a privacy concern?**

- A They use personal data to choose which adverts a person sees
- B They show the same advert to everyone
- C They never use any data about a person
- D They only show adverts for free products, which can happen in some cases

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ANSWER KEY

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

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