

Revision Sheet

IGCSE Computer Science · Unit 7 Algorithm design and problem-solving
13 vocabulary items · 29 marks of exam questions (14 questions)

Part 1 · Vocabulary review answer key. Section A wants the exact English spelling.

Question	Answer	Marks
1	program development life cycle	1
2	analysis	1
3	design	1
4	coding	1
5	testing	1
6	test data	1
7	algorithm	1
8	validation	1
9	range check	1
10	length check	1
11	type check	1
12	verification	1
13	trace table	1

14	D
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15	C
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16	D
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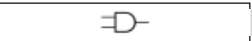
17	C
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18	D
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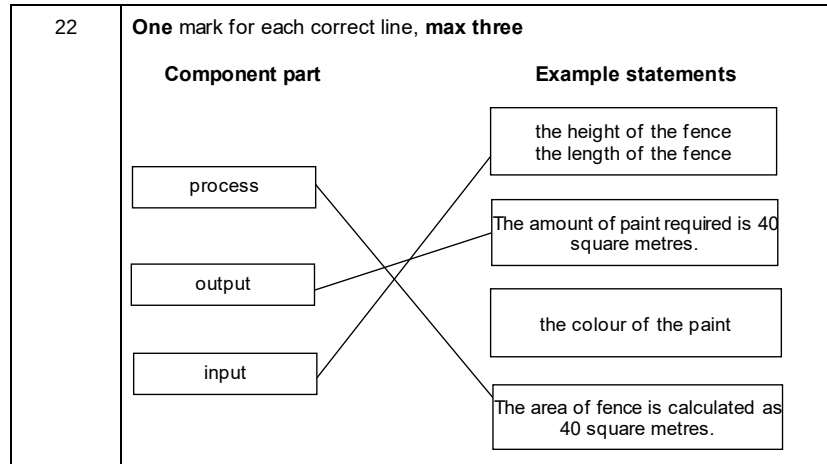
19	C
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20

One mark for each correct line

Logic gate	Standard symbol
AND	
OR	
NAND	
NOT	

21	<p>One mark for naming the type of check and one mark for an expansion (max two)</p> <ul style="list-style-type: none">Visual check... looking at the data that has been entered and either confirming it is correct or showing / correcting errors. <p>OR</p> <ul style="list-style-type: none">Double entry check // Data entered twice... data is entered twice and the two sets of data are compared (by the computer). If they don't match, an error has been input, so re-entry is requested.
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23	One mark for each point <ul style="list-style-type: none"> analysis design testing
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24	One mark for each correct answer max three <p>MP1 abstraction MP2 decomposition MP3 identification of problem MP4 identification of requirements // outline of success criteria</p>
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25	One mark for each point max two. <ul style="list-style-type: none"> check that the program works as expected check for logic/runtime errors check that the program rejects any invalid data that is input check that the program only accepts reasonable data <p>One mark for example Normal // erroneous // abnormal // extreme // boundary</p>
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26	One mark per correct piece of test data, <p>Normal test data: -50 (any integer value between 0 and -100, inclusive) Abnormal test data: 50 (any value outside the range 0 and -100, inclusive, or any non-numeric input and non-integers) Extreme test data: 0 // -100 Boundary test data: 1 // 0 // -100 // -101</p>
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