6-A-Day – Computer Science GCSE (27)

Q1	Points may include: Programmers need to understand each other's code • … so need clear commenting / consistent formats eg for variable names • … suitable examples Programmers need to ensure that their code will work with the code written by others • … agree clear interfaces between modules • … and stick to agreed interfaces/ protocols • … suitable examples The success of one programmer's work depends on the others • … so a need for professionalism • … suitable examples	**6**		**High Level Response (5-6)** A detailed explanation why standards are needed with relevant examples. There will be few if any errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly. **Medium Level Response (3-4)** Some explanation of standards needed with examples but a limited explanation of why they are needed. Examples may not be wholly relevant. There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct. **Low Level Response (0-2)** There may be a vague description of standards but with no or little explanation of why needed and/or examples. Information will be poorly expressed and there will be a limited, if any, use of technical terms. Errors of grammar, punctuation and spelling may be intrusive.

Q2	*Correct answer:* 1 1 0 1 1 0 0 0 + 0 1 1 0 0 0 0 0 ————————————— (1) 0 0 1 1 1 0 0 0 *Award marks for:* • 1 1 1 0 0 0 for bits 5 to 0 • 0 0 for bits 7 and 6.	**2**

Q3	• there is an overflow/a carry left over after the addition/does not fit into one byte.	**1**

Q4	• html: define content/layout of web pages/links • jpg: images/photos • mp3: sound/audio/music files • pdf: documents	4
	Do not accept "text files" for pdf – candidates must indicate that there is some additional formatting / layout if they use "text" "Media files" is too vague for jpg or mp3	
Q5	• 1 • 0. (respectively)	2
Q6	Correct answer:	3

Correct answer:

p	q	(NOT p) AND q
0	0	0
1	0	0
0	1	1
1	1	0

Award marks for
- Correct missing input cases (0 1, 1 1 or 1 1, 0 1)
- Output of 1 for 0 1
- Output of 0 for 1 1.