

6-A-Day – Computer Science GCSE (11)

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| Q1 | • 0 |
| Q2 | • 12 |
| Q3 | • 4 |

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| Q4 | <p>Test data : 1 1 3/1 1 4/1 1 5/1 1 6/2 2 5/2 2 6 Expected output: -1 -2 -3 -4 -1 -2 Award one mark for correct test data, and one mark for the correct corresponding outcome.</p> <p style="text-align: right;">[2]</p> <p style="text-align: center; border: 1px solid black; padding: 5px;">Accept dice in different order</p> |
| Q5 | <ul style="list-style-type: none">• Data type: Integer• Reason: A dice roll is always a whole number (between 1 and 6)• Size: 3• one element is needed for each dice <p style="text-align: right;">[4]</p> <p style="text-align: center; border: 1px solid black; padding: 5px;">Accept size of array in bits/bytes = 3 * size of an integer if this is clear in the response.</p> |

Q6

High Level Response(5/6): A good understanding with detailed descriptions of the role of both software and hardware in social networking; 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 awareness shown of the impact of software and hardware in social networking, with good descriptions of one of these; There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct.

Low level response (0/2): There may be some discussion of social networking but with little or no reference to developments in hardware or software; 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.

Points may include:

- **Hardware:** Computers faster & more capable of high speed Internet access – allows video and voice communication; large server farms and cheaper storage enables the infrastructure behind large social networking websites; convergence of computers with other digital technology (eg phones, television sets) allows continuity of networking over several formats.
- **Software:** Open standards and increased use of server side software (eg php) allow social networking sites to operate across all platforms. Open protocols allow several clients to use the same services or allow software to be written to allow different services to sync with each other; coexist. Software increasingly easier to use and easily adopted by younger generation.

[6]