

## 6-A-Day – Computer Science GCSE (9)

Q1	<p>Input device:</p> <ul style="list-style-type: none"><li>• Joystick</li><li>• To control the CCTV cameras</li><li>• ... to zoom/tilt/pan</li><li>• ... as they allow precise movements (in 2 axis)</li></ul> <ul style="list-style-type: none"><li>• Keyboard</li><li>• To type commands into the system...</li><li>• ... to perform complex control tasks</li><li>• Key presses can be used to control the cameras</li></ul> <div data-bbox="858 259 1461 412" style="border: 1px solid black; padding: 5px;"><p>Allow follow through if a device has the correct use even if it is not identified as the correct type. (e.g. Joystick as output device)</p><p>Reason has to relate has to relate to stem</p></div>
Q2	<p>Output device:</p> <ul style="list-style-type: none"><li>• Monitor/Array of monitors</li><li>• Show the output of cameras</li><li>• Showing multiple cameras at a time</li></ul> <ul style="list-style-type: none"><li>• Printer</li><li>• To print hard copy images from the recordings</li><li>• eg to be used as evidence</li></ul> <div data-bbox="874 880 1477 1032" style="border: 1px solid black; padding: 5px;"><p>Allow follow through if a device has the correct use even if it is not identified as the correct type. (e.g. Joystick as output device)</p><p>Reason has to relate has to relate to stem</p></div>
Q3	<p>Storage device</p> <ul style="list-style-type: none"><li>• hard disk drive with large capacity</li><li>• to record feed from all cameras...</li><li>• ... simultaneously</li><li>• ... allows direct access to any part of the recording</li></ul> <ul style="list-style-type: none"><li>• rewritable large optical drive/removable flash storage</li><li>• to save recordings (eg for a given day)</li><li>• for archiving purposes</li></ul> <p>Other valid answers will be accepted. (1 mark for naming the device and up to 2 for explaining why needed)</p> <div data-bbox="874 1518 1477 1671" style="border: 1px solid black; padding: 5px;"><p>Allow follow through if a device has the correct use even if it is not identified as the correct type. (e.g. Joystick as output device)</p><p>Reason has to relate has to relate to stem</p></div>

The answers on this worksheet have been taken from the OCR GCSE Computing January 2011 Paper

Q4	<p>Points to be made include:</p> <ul style="list-style-type: none"><li>• Open source – licence-free, the restaurant will make the software and its source code available for others to use/improve.</li><li>• Financial implications include: no need to pay for license, can reuse/adapt free open source software which is similar BUT loss of development costs/software will be available to competitors</li><li>• Quality implications include: large community of open source developers can see and comment on code or can be consulted/ software has to conform to certain standards to be released under public licence BUT open source code is used as is, with no guarantees,</li><li>• Ethical implications include: Open source encourages "open culture" values - free sharing, collaboration BUT restaurant is a business trying to make a profit.</li></ul>	<p>High Level Response(5/6): A good discussion of open source software including reference to at least of 2 of ethical, financial or quality implications, discussing both merits and limitations; There will be few if any errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly.</p> <p>Medium Level Response (3/4) clear understanding of open source software; at least 1 of ethical, financial or quality implications; mainly one-sided (for or against); There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct.</p> <p>Low level response (0/2): They may be an attempt to define open source software, but little or no attempt to discuss the implications, or discussion contains several factual errors; 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.</p> <p>[6]</p>
Q5	<ul style="list-style-type: none"><li>• All the characters which are recognised/can be represented by the computer system</li></ul> <p>[1]</p>	
Q6	<ul style="list-style-type: none"><li>• An error in the rules/grammar of the language</li><li>• Any suitable example</li></ul> <p>[2]</p> <p>"A spelling error" is acceptable as an example but not as a definition of syntax error. So e.g. "A spelling error such as ED IF instead END IF" is worth 1 mark only.</p>	