## 6-A-Day – Computer Science GCSE (41)

Q1	data structure does not depend on the application /	Do not accept answers that refer to protecting the data from being accidentally deleted / different levels of
	no data dependence  Multiple platforms/ applications  can operate on the same data  ensures no redundancy/inconsistency (between applications)  Different views of the same data  can easily be prepared for different users according to their need.  Any application can be changed if needed  without changing the data structure / reduces unproductive maintenance	PERMISSIONS for different users / data integrity  But DO accept answers that refer to different users viewing different/user appropriate data (bullet 4)
Q2 Q3	Queries eg  Select attendance for all students of a particular tutor group each week  Select weekly attendance of a particular student for a term So the school can see if his/her attendance is improving  (1 mark for a correct point + 1 mark for expansion)	Do not accept answers which explain what is meant by a query or validation rule. The question requires candidates to explain one example of <b>how</b> they can be used in this application, not what they are. Award one mark for a correct example and an expansion mark for detail/justification of this use.  Remember to award a mark out of 4 for both parts of the question.
	Validation rules eg  Range check / only allow a range of marks (e.g. Present, Absent, Late) When teachers are calling the register and inputting the marks  Presence check on required fields(such as name, class etc.) When a pupil is added to the register  (1 mark for a correct point + 1 mark for expansion)	
Q4	e.g. Input device: touch screen / microphone / accelerometer/(hardware) button/ camera / (hard) keyboard Output device: screen / speaker / vibrating device / LEDs Storage device: Solid state memory e.g. SD card, memory card, flash memory, SIM card	Accept any devices that can be built-in to a mobile phone.  Do not accept devices which send or receive binary data as input or output devices (such as those involved with Bluetooth, Wi-Fi, GPS).  For output accept display Do not accept headphones as they are not built-in. Do not accept Hard Disk/Hard drive as a storage device.
Q5	Content An image showing a map of the	Type of file e school.  JPG
	A text document containing info parents about the school rules. A high resolution picture of all the	prmation to PDF he staff
	and pupils.  A short video clip of some pupil why they like the school.	JPG Is saying MPEG
	1 mark per row	I
Q6	When the file is compressed some detail/data/quality/resolution is lost     which is <u>not noticeable</u> in the video file/ <u>video still viewable</u> with lower quality     but would make the text file unreadable/lose meaning or comprehension	The first bullet is for the idea that something is lost in the compression process.  The second bullet is for the idea that the video file is still usable with this loss.  The third bullet is for the idea that the text file is not usable.