

6-A-Day – Computer Science GCSE (33)

Q1

Bob's computer has 512 kilobytes of ROM and 8 gigabytes of RAM.

(a) State how many bytes are in a kilobyte and a gigabyte.

a kilobyte

.....

a gigabyte

.....

[2]

Q2

(b) (i) Describe the purpose of the ROM in Bob's computer.

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(ii) Describe the purpose of the RAM in Bob's computer.

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[4]

Q3

State the purpose of an **output** device in a computer system.

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..... [1]

Q4

An MP3 player contains a database of songs. This database has only one table.

A sample of the data in this table is shown below.

TrackNo	Artist	Song	Length	TimesPlayed	Protected
001	Dave Eade	Holidays	3.7	3	True
002	Tail	Seeing You	2.7	0	True
003	Dave Eade	Truly Cool	4	11	False
004	Aries	Love	1.9	0	True
005	MC Nail	Skit	0.4	0	False
006	The Flies	Skit	0.6	4	False
007	MC Nail	Game Over	2.7	1	True

(a) State the most appropriate data type for each of the fields shown below.

Field	Data type
Song	
Length	
TimesPlayed	
Protected	

[4]

Q5

(b) The mp3 player allows users to create playlists by using queries.

For example if the query used is

Artist = "Dave Eade"

the mp3 player will play tracks number 001 and 003.

(i) State the TrackNo of the songs that will be played using each of the following queries.

Length > 2

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.....

Q6

(Artist = "MC Nail") OR (Protected = False)

.....
.....

(Song = "Skit") AND (TimesPlayed > 0)

.....
.....

[3]