Qu	Part	Marking guidance	Total marks
01		**3 marks for AO1 (understanding)**

Capacity	Order (1-4)
0.5 Terabytes	4
3500 Kilobytes	1
2.5 Gigabytes	2
6250 Megabytes	3

3 marks for all four correct
2 marks for two correct
1 mark for one correct

In this instance, alternatively formed responses were credited as appropriate. | 3 |

Qu	Part	Marking guidance	Total marks
02	1	**1 mark for AO2 (apply)** 31 // 2^5-1;	1

Qu	Part	Marking guidance	Total marks
02	2	**2 marks for AO2 (apply)** 24 000 000;; If incorrect answer is given then maximum of 1 mark for working. • 3 000 000//3*1000*1000 to calculate the correct number of bytes; • Multiplying an incorrect number of bytes by 8; • 3 000 000 * 8 with incorrect result;	2

Qu	Part	Marking guidance	Total marks
03	1	**Mark is for AO2 (apply)** 63 // 2^6 -1;	1

Qu	Part	Marking guidance	Total marks
03	2	**2 marks for AO2 (apply)** 40 000;; If incorrect answer is given then **maximum of 1 mark** for working: • 5000; • multiplying by 8; • multiplying by 1000;	2

Qu	Part	Marking guidance	Total marks
04		**2 marks for AO2 (apply)** 16 000;; Maximum of **one** mark (if not fully correct) from: • multiplying by 1000 **R.** if 1024 used in place of 1000 • multiplying by 8 • multiplying by 2	2

Qu	Part	Marking guidance	Total marks
05		**2 marks for AO2 (apply)** 2;; If the answer given is not fully correct then award a **maximum of 1 working mark** as follows: • Division by 8; • Division by 1000; • Division by 1 000 000;	2

Qu	Part	Marking guidance	Total marks
06	1	**1 mark for AO1 (recall) and 1 mark for AO2 (apply)** 1000 × 4 // 4000;;× **1 mark for AO1:** identifying that there are 1000 megabytes in a gigabyte; **1 mark for AO2:** multiplying by 4; **A.** 1024 × 4 // 4096;; **Maximum 1 mark:** If final answer not correct.	2

Question	Part	Marking guidance	Total marks
07		**2 marks for AO2 (apply)** 56 000 000 (bits);; If the answer given is not fully correct then award **a maximum of 1 working mark** as follows: • Multiplying by 7 000 000; • Multiplying by 8; • Multiplying by 1000;	2