

Assignment 2 marking scheme

1. (a) (10 marks) $(2+1024) * 4 \text{ KB} = 4104\text{KB} = 4202496\text{B}$
(b) (i) (10 marks) 9, 17, 19, 20
(ii) (10 marks) 17, 19, 20, 21, 25, 27, 28, 29
(iii) (10 marks) 17, 19, 20, 21, 25, 27, 28, 29, 35, 37
(iv) (10 marks) 3, 9, 17, 19, 20, 21, 25, 27

2. (a) (each one is 6 marks, total 30 marks)

Data block 0: (6 marks)

.	0
..	0
dir7	7
dir6	6
dir11	11
file5	18

Data block 7: (6 marks)

.	7
..	0
dir3	3
dir1	1

Data block 8: (6 marks)

.	8
..	11
dir10	10
dir5	5

Data block 4: (6 marks)

.	4
..	3
dir9	9

Data block 10: (6 marks)

.	10
..	8
file2	15
file4	17

- (b) (total 20 marks, each pair is 4 marks)

inode 0 -> data block 0	(4 marks)
->inode 11 -> data block 11	(4 marks)
-> inode 8 -> data block 8	(4 marks)

-> inode 10 -> data block 10 (4 marks)

-> inode 15. (4 marks)