Assignment 2 Marking Scheme

1. (a) (10 marks) (2+1024) *4 KB = 4104KB = 4202496B
   (b) (10 marks for each)
   (i) [15, 35, 37, 40]
   (ii) [35, 37, 40, 45, 51, 58, 66, 71]
   (iii) [35, 37, 40, 45, 51, 58, 66, 71, 75, 88]
   (iv) [6, 15, 35, 37, 40, 45, 51, 58]

2. (a) (Each one is 6 marks, total 30 marks)
   Data block 0: (6 marks)

.	0
..	0
dir1	1
dir3	3
dir4	4
file3	16

   Data block 1: (6 marks)

.	1
..	0
dir2	2

   Data block 5: (6 marks)

.	5
..	3

   Data block 8: (6 marks)

.	8
..	2
file1	14
dir11	11
dir12	12

   Data block 10: (6 marks)

.	10
..	6
dir13	13

   (b) (Total 20 marks, each pair is 4 marks)
   inode 0 -> data block 0 (4 marks)
   -> inode 1 -> data block 1 (4 marks)
   -> inode 2 -> data block 2 (4 marks)

-> inode 8 -> data block 8 (4 marks)
-> inode 14 (4 marks)