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## **CS609 System Programming**

Final Term Examination – Spring 2006 Time Allowed: 150 Minutes

Question No. 1 Marks : 10

As you know each entry in FAT12 is 12-bits wide, but we can address to a byte or double weathd not a single bit.

a- So how can we access a 12-bit entry without losing any (4)

b- its following example: (6)

Offset	value
373H	59H
374H	23H
375H	53H
376H	72H
377H	53H
378H	55H
379H	52H
380H	25H
381H	56H
382H	62H
383H	25H

Question No. 2 Marks : 6

Write a function that takes drive number as an input and return the far address of **Pairten**eter Block.

Question No. 3 Marks : 9

How can we determine that a particular system contains FAT12, FAT16 or FAT32 file system? Write down an algorithm for it.

Question No. 4 Marks : 9

Write down three differences between Logical Sector Number (LSN) and Logical Addressing (LBA).

Question No. 5 Marks: 10

Write a program that store all the bytes received through COM1 port and save it to a file.

Question No. 6 Marks : 6

Write a program that modifies the typematic rate of the keyboard. It will change the **the lays** second and typematic rate to 2 characters per second.