- 1. Write a short note on
 - a. Read
 - b. Write
 - c. Close
 - d. File creation
 - e. Creation of special files
 - f. Change directory
 - g. Mount and umount
 - h. link
- 2. List the system calls that returns the file descriptors for use in other system call? Explain any one in detail?
- 3. Draw the data structure of File system when following system calls are executed:

a.

```
fd1 = open ("/etc/ passwd", 0_RDONLY);
fd2 = open ("local", 0_RDONLY);
fd1 = open ("/etc/ passwd", 0_RDONLY);
```

b. Close(fd2)

4.

```
Consider the following program.

#include<fcntl.h>
Main()
{
    int fd1, fd2;
    char buf 1[512],buf2[512];
    fd1=open("/etc/ passwd", O_RDONLY);
    fd2=open("/etc/ passwd", O_RDONLY);
    read(fd1, buf1, sizeof(buf1));
    read(fd2, buf2, sizeof(buf2));
}
```

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With the help of above program explain how a process can open file more than once and read it via different file descriptors.

- 5. What are the pipes? Explain the algorithm "pipe" for creation of unnamed pipes.
- 6. Discuss the reading and writing the pipes

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