# **Exercises-Chapter 2**

**Introduction to Architecture**

## What is the purpose of system calls? State two steps the OS needs to take to execute a system call.

## Name five system calls relating to each major part of the OS including, processes management, memory management and file management. Briefly explain each call.

## What are the three general methods for passing parameters to the operating system when system call is made? Briefly explain each method.

## What is the purpose of the command line interpreter? Is it part of the Kernel? Why or why not?

1. State two differences between C API calls and system calls?

## What system calls have to be executed by a command interpreter or shell in order to start a new process?

## What is the purpose of system programs?

## Name five system programs relating to each major part of OS, namely, processes management, memory management and file management. Briefly explain each program.

1. For each term below, state if it is a system call, system program or C API call or none of these

cd sys\_ write ls scanf

fork sys\_open cp include

printf ps fopen date

# 