Question Bank

7.1   What is the motivation for establishing inter-process communication?

7.2   What are system calls? Explain the system call flow with the help of a block diagram.

7.3   How is a new process spawned? How does one populate code in a newly spawned process?

7.4   Describe at least three environmental variables that are carried by the child process from the description of parent process.

7.5   Differentiate between different exec system calls.

7.6   What are the limitations of a pipe as an IPC mechanism?

7.7   How is a shared file mechanism implemented to achieve IPC?

7.8   How is the shared memory model implemented to achieve IPC?

7.9   How is message based IPC achieved?

7.10 When a process receives a signal, it may respond in a variety of ways. Give an explanation of at least three different ways in which a process may respond.

7.11 What is a mail box and how it may be utilized for IPC.

7.12 What is a "port" and how it is utilized for establishing inter process communication?

7.13 What are the different methods of Inter Process Communication?