**MCQs**

1. What is an operating system?  
   a) interface between the hardware and application programs  
   b) collection of programs that manages hardware resources  
   c) system service provider to the application programs  
   d) all of the mentioned
2. If a process fails, most operating system write the error information to a \_\_\_\_\_\_  
   a) new file  
   b) another running process  
   c) log file  
   d) none of the mentioned
3. When a process is in a “Blocked” state waiting for some I/O service. When the service is completed, it goes to the \_\_\_\_\_\_\_\_\_\_  
   a) Terminated state  
   b) Suspended state  
   c) Running state  
   d) Ready state
4. A process can be terminated due to \_\_\_\_\_\_\_\_\_\_  
   a) normal exit  
   b) fatal error  
   c) killed by another process  
   d) all of the mentioned
5. What is interprocess communication?  
   a) communication within the process  
   b) communication between two processes  
   c) communication between two threads of same process  
   d) none of the mentioned
6. A set of processes is deadlock if \_\_\_\_\_\_\_\_\_\_  
   a) each process is blocked and will remain so forever  
   b) each process is terminated  
   c) all processes are trying to kill each other  
   d) none of the mentioned
7. The address of the next instruction to be executed by the current process is provided by the \_\_\_\_\_\_\_\_\_\_  
   a) CPU registers  
   b) Program counter  
   c) Process stack  
   d) Pipe
8. A Process Control Block(PCB) does not contain which of the following?  
   a) Code  
   b) Stack  
   c) Bootstrap program  
   d) Data
9. The state of a process is defined by \_\_\_\_\_\_\_\_\_\_  
   a) the final activity of the process  
   b) the activity just executed by the process  
   c) the activity to next be executed by the process  
   d) the current activity of the process
10. Which of the following is not the state of a process?  
    a) New  
    b) Old  
    c) Waiting  
    d) Running
11. What is a Process Control Block?  
    a) Process type variable  
    b) Data Structure  
    c) A secondary storage section  
    d) A Block in memory
12. A single thread of control allows the process to perform \_\_\_\_\_\_\_\_\_\_  
    a) only one task at a time  
    b) multiple tasks at a time  
    c) only two tasks at a time  
    d) all of the mentioned
13. What is the objective of multiprogramming?  
    a) Have a process running at all time  
    b) Have multiple programs waiting in a queue ready to run  
    c) To increase CPU utilization  
    d) None of the mentioned
14. When the process issues an I/O request \_\_\_\_\_\_\_\_\_\_  
    a) It is placed in an I/O queue  
    b) It is placed in a waiting queue  
    c) It is placed in the ready queue  
    d) It is placed in the Job queue
15. What will happen when a process terminates?  
    a) It is removed from all queues  
    b) It is removed from all, but the job queue  
    c) Its process control block is de-allocated  
    d) Its process control block is never de-allocated