**Chapter 3 MCQ**

1. The interconnection topologies are implemented using \_\_\_\_\_\_\_\_\_ as a node.  
   a) control unit  
   b) microprocessor  
   c) processing unit  
   d) microprocessor or processing unit
2. The feature of the multi-microprocessor architecture is  
   a) task dependent  
   b) single bus provider for many processors  
   c) design is for a specific task  
   d) all of the mentioned
3. The main objective in building the multi-microprocessor is  
   a) greater throughput  
   b) enhanced fault tolerance  
   c) greater throughput and enhanced fault tolerance  
   d) none of the mentioned
4. An interface between the user or an application program, and the system resources are  
   a) microprocessor  
   b) microcontroller  
   c) multi-microprocessor  
   d) operating system
5. An operating system provides  
   a) hardware and software resource management  
   b) input/output management  
   c) memory management  
   d) all of the mentioned
6. Distributed systems are designed to run  
   a) serial process  
   b) parallel process  
   c) serial and parallel process  
   d) none of the mentioned
7. A distributed operating system must provide a mechanism for  
   a) intraprocessor communication  
   b) intraprocess and intraprocessor communication  
   c) interprocess and interprocessor communication  
   d) interprocessor communication
8. A multiprocessor operating system should perform  
   a) a mechanism to split a task into concurrent subtasks  
   b) optimize the system performance  
   c) handling structural or architectural changes  
   d) all of the mentioned
9. An operating system must possess  
   a) process-processor allocation strategies  
   b) mechanism to collect results of subtasks  
   c) software to improve overall performance  
   d) all of the mentioned
10. A multiprocessor operating system must take care of  
    a) authorized data access and data protection  
    b) unauthorized data access and data protection  
    c) authorized data access  
    d) data protection
11. Multi-processor system gives a

a.small system  
b.tightly coupled system  
c.loosely coupled system  
d.both a and b

1. Logical extension of multiprogramming operating system is

a.time sharing  
b.multi-tasking  
c.single programing  
d.both a and b

1. Multiprocessor system have advantage of

a.Increased Throughput  
b.Expensive hardware  
c.operating system  
d.both a and b

1. Multiprogramming of the computer system increases

a.memory  
b.storage  
c.CPU utilization  
d.cost

15. Multi-programming systems **\_\_**.

a.Are easier to develop than single programming systems  
b.Execute each job faster  
c.Execute more jobs in the same time  
d.Are used only on large main frame computers

16. Multiprocessing **\_\_**.

a.Make the operating system simpler  
b.Allows multiple processes to run simultaneously  
c.Is completely understood by all major computer vendors  
d.Allows the same computer to have the multiple processors

17. Which one is not benefit of multiprocessors?

**(A)** Multiple independent jobs can be made to operate in parallel

**(B)** A single job can be partitioned into multiple parallel tasks

**(C)** Multiple jobs can be made to operate in serial

**(D)** All are benefits

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a single computing component with two or more independent

actual central processing units called "cores"

a) Microprocessor

b) Muliti core processor

c) Single processor

d) None of these

Answer: B

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a single computing component with two or more independent

actual central processing units called "cores"

a) Microprocessor

b) Muliti core processor

c) Single processor

d) None of these

Answer: B