DEADLOCK QUIZ QUESTIONS

1. A System has 3 processes sharing 4 resources. If each process needs a max of 2 units, then deadlock

(a) never occur **(b)may occur**

(c) has to occur **(d)none of above**

ANS: (a)

2. The methods for dealing with the deadlock problem is

(a) Use a protocol to make sure that the system never enters into the deadlock.

(b) Allow the system to enter a deadlock state and recover.

(c) Ignore the problem and pretend that deadlock never occur.

(d) All of above.

ANS: (d)

3. Which OS ignore the problem and that deadlock never occur in the system?

(a) UNIX

(b) LINUX

(c) Windows

(d) MAC

ANS: (a)

4. If the Resource Allocation graph contains m types of resources and n processes, then the time complexity of the algorithm for deciding whether system is safe or unsafe is

(a) O(n square*m)

(b) O(n*m)

(c) O(n square*m square)

(d) O(n*m square)

ANS: (a)

5.With a single resource, deadlock occurs

(a) if there are more than 2 processes competing for that resource.

(b) if there are only 2 processes competing for that resource.

(c) if there is a single process competing for that resource.

(d) None of above.

ANS: (d)

6. ‘m’ processes share ‘n’ resources of the same type. The maximum need of each process doesn’t exceed ‘n’ and the sum of all their maximum need is always less than m + n. In this set up deadlock

(a) may occur

(b) never occur

(c) has to occur

(d) none of above

ANS: (b)

7. Where does the swap space reside?

(a) RAM

(b) Disk

(c) ROM

(d) On chip cache

ANS: (b)

8. Which of the following does not interrupt a running process?

(a) Device

(b) Timer

(c) Scheduler process

(d) Power Failure

ANS: (c)

9. Which of the following algorithm is a non-preemptive?

(a) RR

(b) FCFS

(c) Multilevel queue Scheduling

(d) Multilevel queue

ANS: (b)

10. Fastest form of Inter process communication provided in UNIX is

(a) Virtual memory (b) Secondary memory

(c) Shared memory (d) Main memory

ANS: (c)

11. All deadlocks involve conflicting needs for
    (a) Resources
    (b) Processes
    (c) Users
    (d) Programs

ANS: (a)

REFERENCES:

- *http://girdhargopalbansal.blogspot.in/2013/05/operating-system-gate-questions.html*
- *https://www.getmyuni.com/gate/computer-science/operating-system/deadlocks*