Q2. UGC NET Dec 2018 :

Suppose a system has 12 instances of some resource with n processes competing for that resource. Each process may require 4 instances of the resources. The maximum value of n for which the system never enters into deadlock is

a) 3

b) 4

c) 5

d) 6

Sol.

What is Deadlock ?

Ans. Deadlock is a situation where set of processes are blocked because each process holding a resource and waiting to acquire a resource held by another process.

Number of instances = 12

Number of processes = n

Each process requires = 4 instances

1 process occupy = 4 instances

2 process occupy = 8 instances

3 process occupy = 12 instances.

No resource remaining for more than 3 process.

So the maximum number of processes is 3.

Option a) 3 is the correct answer.

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