Q1.True or *False: (put T for true and F for false in the table in answer sheet)*

1. Threads help in performing parallelism within the same process. ( )
2. Device driver is a Hardware and the device controller is a software. ( )
3. The process which running in user-mode services would be able to access the hardware directly. ( )
4. The kernel is the core of all operating systems and from its functions switching between programs. ( )
5. Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing and Amazon Web Services (AWS) is one of the cloud provider. ( )
6. Platform as a Service (PaaS) is one of the Cloud Computing Services. ( )

Q2.Select the correct answer(s) *(Put the answer letter(s) in the table in answer sheet)*:

1. When a set of processes become blocked because each process is holding a resource and waiting for another resource acquired by some other process. This is called …...
   a. Synchronization.
   b. Deadlock.
   c. Acceleration.
   d. Process Status.

2. Which scheduling algorithm allocates the CPU first to the process that requests the CPU first?
   a) first-come, first-served scheduling
   b) shortest job scheduling
   c) priority scheduling
   d) none of the mentioned

3. **In real time operating system _____**

   (a) all processes have the same priority

   (b) a task must be serviced by its deadline period

   (c) process scheduling can be done only once

   (d) kernel is not required

4. **In which one of the following the kernel is not involved ?**
   a) kernel level thread
   b) user level thread
   c) process
   d) none of the mentioned

5. **In a_____ real time system, it is guaranteed that critical real time tasks will be completed within their deadlines.**

(a) soft

(b) hard

(c) critical

(d) none of the mentioned

6. **In priority scheduling algorithm, when a process arrives at the ready queue, its priority is compared with the priority of _____**

   a) all process in the ready queue

   b) currently running process on the CPU

   c) None of the mentioned