**Name**: ..... **Group** ……

# Operating System Concepts Quiz 2

1. Time interval between submission and completion of a process is called:
   a. Waiting Time
   b. Response time
   c. Turnaround Time
   d. Total Time

2. The program that is running at all times in a computer is the kernel.
   a. True
   b. False

3. A CPU-bound process is:
   a. A process spending most of its time doing computation
   b. A process spending all of its time doing computation
   c. A process spending most of its time doing I/O requests
   d. A process spending all of its time doing I/O requests

4. In RAM, each word has a unique address.
   a. True
   b. False

5. Which of the following is not considered a system program?
   a. notepad
   b. task manager
   c. Internet explorer
   d. Excel

6. Which one of the following is not true about process state transfer?
   a. Running to ready
   b. Ready to running
   c. Waiting to running
   d. Running to waiting

7. Which of the following is not a personal computer operating system?
   a. Linux
   b. MS Windows
   c. MAC OS/X
   d. Symbian

8. The purpose of clustered systems is:
   a. High availability
   b. Decrease processing power
   c. Decrease system resources
   d. Decrease I/O devices

9. Which of the following is not considered hard real time system?
   a. Robotic systems
   b. Industrial control systems
   c. Weapon Systems
   d. multi-tasking systems

10. When quantum is so small in RR (select 2 choices)
    a. processes may take a longer time to finish
    b. context switching can be ignored.
    c. process that entered the ready queue first are the first to finish
    d. context switching is an overhead

Given the arrival time & CPU burst time for four processes , plot the Gantt chart & calculate the average turn arround & average waiting times when using :

a) SJF (pre-emptive) b) RR (quantum=2)

| Process | Arrival Time | CPU burst |
|---|---|---|
| P1 | 0 | 10 |
| P2 | 3 | 5 |
| P3 | 4 | 2 |
| P4 | 5 | 1 |