

Operating System- CS604

Assignment # 02

Fall 2011

Marks: 20

Due Date

Your assignment must be uploaded before or on **November 17, 2011**

Uploading instructions:

Please view the **Assignment Submission Process** document provided to you by the Virtual University for uploading assignments.

- Assignment should be in .doc format.
- Save your assignment with your ID (e.g. bx020200786.doc).
- Assignment submission through email is highly discouraged.

Rules for Marking:

It should be clear that your assignment will not get any credit if:

- The assignment is submitted after due date.
- The submitted assignment file is corrupted.
- The assignment is copied.

Note:

Your answer must follow the below given specifications. **You will be assigned zero marks if you do not follow these instructions.**

- Font style: "Times New Roman"
- Font color: "Black"
- Font size: "12"
- **Bold** for heading only.
- Font in *Italic* is not allowed at all.
- No formatting or bullets are allowed to use.

Question # 1:

Five processes A, B, C, D and E are given below with their run time and arrival time.

Process	CPU Time	Arrival Time
A.....	8	0
B.....	1	1
C.....	2	3
D.....	1	4
E.....	5	2

(Where as Quantum = 3 ms)

Find the Turnaround Times, Waiting time and draw the Gantt chart for these processes by using Shortest Job First and Round Robin scheduling Algorithms.

Question # 2:

Five processes P₁, P₂, P₃, P₄ and P₅ are given below with their run time. Assume that all processes arrive in numerical order at time “0”.

Process ID	CPU Time
P ₁	5
P ₂	4
P ₃	2
P ₄	1
P ₅	8

For each process indicate the waiting time and turnaround time for Shortest Job First, Round Robin and First Come First Serve scheduling algorithms.(Where as Quantum = 2).