

**Section: C****Quiz-1****Spring 2022****Operating System****Marks: 10****Time: 20 Min**

1. Based on the following data, find the average waiting time and average response time for each of the processes using Round Robin Process scheduling algorithm. Assume time quantum  $q = 4$  ms. Solve the Same problem using Shortest Remaining Time Next Algorithm. [5+5]

Process	Arrival time	CPU burst time
B	4	9
A	0	16
D	8	6
C	7	2
E	15	17
F	22	9
G	24	4
H	25	1

**Section: C****Quiz-1****Fall 2022****Operating System****Marks : 10****Time: 20 Min**

1. Based on the following data, find the average waiting time and average response time for each of the processes using Round Robin Process scheduling algorithm. Assume time quantum  $q = 3$  ms. Solve the Same problem using Shortest Remaining Time Next Algorithm. [5+5]

Process	Arrival Time	CPU Burst Time
B	0	17
A	3	9
D	9	12
C	8	12
E	6	17
F	21	9
G	21	3
H	10	1

**Section: B**

**Quiz-1**

**Fall 2022**

**Operating System**

**Marks : 10**

**Time: 20 Min**

1. Based on the following data, find the average waiting time and average response time for each of the processes using Round Robin Process scheduling algorithm. Assume time quantum  $q = 3$  ms. [10]

Process	Arrival time	CPU burst time
A	0	11
B	3	8
C	9	12
D	11	12
E	17	6
F	19	15
G	24	3
H	30	7
I	32	6
J	42	4
K	18	4

**Section: B**

**Quiz-1**

**Fall 2022**

**Operating System**

**Marks : 10**

**Time: 20 Min**

1. Based on the following data, find the average waiting time and average response time for each of the processes using Round Robin Process scheduling algorithm. Assume time quantum  $q = 4$  ms. [10]

Process	Arrival time	CPU burst time
B	3	11
C	9	8
A	0	12
E	18	13
D	12	12
F	19	17
G	24	8
H	30	7
I	32	9
J	42	5
K	18	8

**Section: A**

**Quiz-1**

**Fall 2022**

**Operating System**

**Marks : 10**

**Time: 20 Min**

1. Based on the following multilevel feedback Queue data, find the average waiting time and average response time for each of the processes. [10]

q=8
q=16
q=20
FCFS (Non Preemptive)

Process	Arrival Time	CPU Burst Time
B	0	47
A	3	19
D	9	12
C	8	12
E	6	17
F	57	9
G	65	3
H	10	11
I	25	48

**Section: A**

**Quiz-1**

**Fall 2022**

**Operating System**

**Marks : 10**

**Time: 20 Min**

1. Based on the following multilevel feedback Queue data, find the average waiting time and average response time for each of the processes [10]

q=6
q=12
q=18
SJF (Non Preemptive)

Process	Arrival Time	CPU Burst Time
B	0	47
A	3	19
D	9	12
C	8	12
E	6	17
F	57	9
G	65	3
H	10	11
I	25	48