

**BIRLA INSTITUTE OF TECHNOLOGY**  
**DEOGHAR CAMPUS**  
**QUIZ: FIRST**

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SUBJECT: CS 239 Operating System

Time: 50 minutes

Sem.: IVth

Branch: CSE

Session: SP/24

Full Marks: 10

**Instructions:**

1. Attempts all the Questions.
2. Overwriting means Cancellation of question.

Set: D

- Q 1. A thread shares its resources(like data section, code section, open files, signals) with \_\_\_\_\_  
a) other process similar to the one that the thread belongs to  
b) other threads that belong to similar processes  
c) other threads that belong to the same process  
d) all of the mentioned [1mark]
- Q. 2 With \_\_\_\_\_ only one process can execute at a time; meanwhile all other process are waiting for the processor. With \_\_\_\_\_ more than one process can be running simultaneously each on a different processor. [1mark]
- Q. 3. The following are the reasons of the process termination:  
I) \_\_\_\_\_ II) \_\_\_\_\_  
III) \_\_\_\_\_ IV) \_\_\_\_\_ [1mark]
- Q.4. In the Time sharing system the \_\_\_\_\_ scheduler is absent or minimal but surely present in the \_\_\_\_\_ scheduler. [1mark]
- Q.5. Consider the set of 5 processes whose arrival time and burst time are given below- [2+2 marks]

Process Id	Arrival time	Burst time (ms)
P1	0	5
P2	1	3
P3	2	1
P4	3	2
P5	4	3

Answer the following questions:

- (i) The average waiting time for the Round Robin ( time quantum = 2 ms) scheduling.
- (ii) The average Turn-around time for the HRRN scheduling algorithm.

- Q.6. Consider the following scenario and draw the scheduling chart for the Earliest Deadline First Scheduling algorithm. [2marks]

Process	Execution Time	Deadline	Period
P1	3	7	20
P2	2	4	5
P3	2	8	10

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