

23/3/2018



DOON UNIVERSITY, DEHRADUN
Mid Semester Examination, II Semester, 2018
Academic Year 2017-18 (Even Semester)
School of Technology
Programme Name: MCA
Course Code with Title: MCC-204 Operating System

Time Allowed: 2Hours

Maximum Marks: 30

SECTION: A

(Total Marks: 3 × 2 = 6)

Question 1: What is an Operating System?

Question 2: Define Virtual Memory?

Question 3: What are threads?

SECTION: B

(Total Marks: 3 × 4 = 12)

Question 1: Discuss Logical versus Physical Address space?

Question 2: Discuss types of scheduler in detail?

Question 3: Define context switching?

SECTION: C (Answer any two questions)

(Total Marks: 2 × 6 = 12)

| Question 1: | Process | Execution time | Arrival time |
|-------------|---------|----------------|--------------|
| | P1 | 20 | 0 |
| | P2 | 25 | 15 |
| | P3 | 10 | 30 |
| | P4 | 15 | 45 |

Find the total waiting time, turnaround time and average waiting time of the process?

Question 2: Discuss the operations on process?

Question 3: Explain process states with diagram in detail?