



**DM-003-003410**

Seat No. \_\_\_\_\_

**B. C. A. (Sem. IV) Examination**

**March - 2022**

**Operating Systems Concepts With Unix / Linux : CS-22  
(Old Course)**

**Faculty Code : 003**

**Subject Code : 003410**

Time : **2.30** Hours]

[Total Marks : **70**

**Instructions :** (1) All questions carry equal Marks.  
(2) Attempt any five of the following questions.

- 1 Explain all types of operating system. 14
- 2 Give the unix architecture and explain features of unix operating system. 14
- 3 What is PSTD. Explain PSTD in detail with diagram. 14
- 4 What process scheduling algorithm explain all preemptive scheduling algorithms. 14
- 5 What is memory management explain contiguous and non contiguous memory management. 14
- 6 Explain any seven file and directory related commands in unix. 14

- 7 Explain vi editor in detail. 14
- 8 (A) Explain operator redirection and piping. 14  
(B) Explain finding pattern in files commands.
- 9 (A) Explain communication commands. 14  
(B) Explain concept if mounting and demounting in unix.
- 10 (A) Explain all decision statement in unix shell script. 14  
(B) Write a shell script to perform arithmetic operations.
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