

## SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Define operating system. Discuss various types of operating system. (Co1)
- Q.24 Write a brief note about Linux. Explain structure of linux with example. (CO5)
- Q.25 Explain Banker's algorithm in detail with suitable example. What are the various methods for recovery from deadlock? (Co2)

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## 3rd Sem / Computer, Computer ( For Speech and Hearing Impaired)

### Subject : Operating System

Time : 3 Hrs.

M.M. : 60

## SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which is not a function of operating system? (CO1)
- a) Memory management
  - b) Peripheral Management
  - c) Interface b/w user and hardware
  - d) Power management
- Q.2 How many states of processes are there? (CO1)
- a) Two
  - b) Three
  - c) Four
  - d) Seven
- Q.3 Which of the following is a condition that causes deadlock? (CO2)
- a) Mutual exclusion
  - b) Hold and Wait
  - c) No preemption and Circular wait
  - d) All of these

Q.4 Which command is used to display last 10 lines?  
(CO5)

- a) head                      b) grep  
c) tail                        d) None of the above

Q.5 Which method is the best among file allocation methods?  
(Co4)

- a) Linked                      b) Contiguous  
c) Indexed                    d) None of these

Q.6 In UNIX which system call creates the new process?  
(CO1)

- a) Fork                        b) Create  
c) New                         d) All of the above

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define PCB. (CO2)

Q.8 Define Fragmentation. (CO3)

Q.9 Data structure that stores the details about a process is called\_\_\_\_\_ . (CO2)

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Q.10 CD-ROM stands for\_\_\_\_\_. (CO3)

Q.11 Give name of any two operating systems softwares. (CO1)

Q.12 Explain chmod command. (CO5)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Discuss the various conditions of a deadlock. (CO2)

Q.14 Difference between shared and dedicated devices. (CO4)

Q.15 Explain scheduler and its types.

Q.16 What is Swaping? Why is it needed? (CO3)

Q.17 Write a shell script to find the average of three numbers. (CO5)

Q.18 Define system call and its types.

Q.19 Explain the concept of paging. (CO4)

Q.20 List various scheduling algorithms. Explain any two.

Q.21 Differentiate between Internal and External Fragmentation.

Q.22 Different process states with diagram. (CO2)

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