

No. of Printed Pages : 4 180831/170831/120831
Roll No. /030831

3rd Sem / Comp, IT, GE
Subject:- Operating System

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Expand PCB. (CO2)
- a) Program communication block
 - b) Process Communication Block
 - c) Process control block
 - d) Process control backup
- Q.2 Who developed Linux software? (CO5)
- a) Denis M. Ritchie b) Linus Torvalds
 - c) Bjarne Stroustrup d) Grace Murray Hopper
- Q.3 Which of the following is not a scheduling algorithm? (CO2)
- a) FIFO b) SRTF
 - c) STRN d) Round Robin
- Q.4 Which of the following is the address generated by CPU? (CO3)
- a) Physical Address b) Logical Address
 - c) Absolute Address d) None of the above

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- Q.5 Which command is used to display last 10 lines? (CO5)
- a) grep b) head
 - c) tail d) display
- Q.6 Virtual memory is (CO3)
- a) Large secondary memory
 - b) Large main memory
 - c) Illusion of large main memory
 - d) None of the above
- Q.7 Name of Deadlock avoidance algorithm. (CO2)
- a) Round Robin algorithm
 - b) FCFS algorithm
 - c) Banker's algorithm
 - d) Priority Scheduling algorithm
- Q.8 A process is said to be in _____ state if it was waiting for an event that will never occur. (CO2)
- a) Safe b) Unsafe
 - c) Starvation d) Deadlock
- Q.9 Which is not an example of Secondary memory. (CO4)
- a) Floppy disk b) DVD
 - c) Compact Disk d) RAM
- Q.10 In UNIX which system call creates the new process? (CO5)
- a) Fork b) Create
 - c) New d) All of the above

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Name any two states of process. (CO2)
- Q.12 CMOS stands for _____. (CO1)
- Q.13 _____ is an example of multi-user operating system. (CO1)
- Q.14 Name any three input devices. (CO4)
- Q.15 Give name of any two operating system softwares. (CO1)
- Q.16 What is file? (CO4)
- Q.17 Define PCB. (CO2)
- Q.18 Printer produces _____ copy. (CO4)
- Q.19 The _____ command is used to copy a file in linux. (CO5)
- Q.20 CD-ROM stands for _____. (CO4)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

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| Q.21 | Explain benefits of virtual machine. | (CO1) |
| Q.22 | Explain logical file system. | (CO4) |
| Q.23 | What are the advantages of partitioning? | (CO3) |
| Q.24 | What is memory management? | (CO3) |
| Q.25 | What are the various types of file system? | (CO4) |
| Q.26 | What are shared devices? | (CO4) |

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- Q.27 Define memory mapped I/O. (CO4)
- Q.28 What are the different accessing methods of a file? (CO4)
- Q.29 Name various methods for handling deadlock. Explain any two. (CO2)
- Q.30 Explain best fit, worst fit and first fit methods of allocating memory. (CO3)
- Q.31 What is swapping? Why is it needed? (CO3)
- Q.32 What is the aim of File management system? (CO4)
- Q.33 Write a shell script to find the Factorial of a number. (CO5)
- Q.34 Different process states with diagram. (CO2)
- Q.35 Explain any four linux commands. (CO5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Define Virtual Memory. How it is useful? Explain the working of virtual memory with diagram. (CO3)
- Q.37 Write a brief note about Linux. Explain structure of linux with example. (CO5)
- Q.38 Explain the following Scheduling algorithms:(CO2)
- a) FCFS b) SJF

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