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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

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)

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)

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