

## MCA II Semester – Sub: Operating Systems Lab – Question Bank - JULY/AUGUST 2020

		ram to perform arithmetic operations d execute the following commands ii) MAN	
		m to find the sum of n numbers d execute the following commands ii) CD	
-	i) fork	ng commands in UNIX operating system ii) exec d execute the following commands ii) MKDIR	
4.a. b.	Create a shell prog Write the syntax ar i) RMDIR	ram to perform arithmetic operations d execute the following commands ii)CLEAR	
5.a. b.	Create a shell prog Write the syntax an i) PWD	ram to perform arithmetic operations d execute the following commands ii) CD	
	i) opendir	ng commands in UNIX operating system ii) close d execute the following commands ORY ii) COPY	
7.a. b.	Write a C program Write the syntax ar i) CAT	to implement the UNIX commands 'cp, ls, grep' d execute the following commands ii) MKDIR	
	i) close	ng commands in UNIX operating system ii) stat id execute the following commands ii) WHO AM I	
		am to find the factorial of a given number and execute the following commands ii) PWD	
		gram to perform arithmetic operations and execute the following commands ii) MOVE	
11.	<ul><li>a. Implement least r</li><li>b. Explain the follow</li><li>i) fork</li></ul>	ecently used page replacement algorithm using C programing system calls in UNIX operating system ii) execc.	
12.	a. Implement LFU p b. Write a shell prog	age replacement algorithm using C program ram to find the given number is odd or even	
	<ul><li>b. Execute the following i) opendir</li></ul>	ging concept using C program ving commands in UNIX operating system ii) readdir n to implement best fit memory allocation method	

b. Create a snell program to perform arithmetic operations
<ul><li>15.a. Write a C program to implement Shortest Job First Scheduling algorithm</li><li>b. Execute the following commands in UNIX operating system</li><li>i) wait</li><li>ii) exit</li></ul>
16.a. Write a C program to implement first fit memory allocation method b. Write a C program to implement the UNIX commands 'cp, Is, grep'
<ul> <li>17.a. Write a C program to implement worst fit memory allocation method</li> <li>b. Execute the following commands in UNIX operating system</li> <li>i) getpid ii) close</li> </ul>
18.a. Implement Least Recently Used page replacement algorithm using C program b. Create a shell program to find the greatest among the given three numbers
<ul><li>19.a. Write a C program to implement indexed file allocation strategy</li><li>b. Execute the following commands in UNIX operating system</li><li>i) close</li><li>ii) stat</li></ul>
20.a. Implement first come first serve page replacement algorithm using C program b. Explain the concept of looping using shell programming
<ul> <li>21.a. Write a C program to implement first come first serve scheduling algorithm</li> <li>b. Write the syntax and execute the following commands</li> <li>i) LISTING DIRECTORY</li> <li>ii) COPY</li> </ul>
<ul> <li>22.a. Write a C program to implement linked list file allocation Strategy</li> <li>b. Write the syntax and execute the following commands</li> <li>i) WHO AM I</li> <li>ii) MAN</li> </ul>
23.a. Implement pipe concept in inter process communication using C program     b. Write the syntax and execute the following commands     i) CAT     ii) MKDIR
24.a. Write a C program to implement indexed file allocation strategy b. Write the syntax and execute the following commands i) LS ii) COPY
<ul><li>25.a. Write a program to implement sequential data allocation.</li><li>b. Write the syntax and execute the following commands</li><li>i)PWD</li><li>ii)CD</li></ul>
<ul> <li>26.a. Write a C program to implement producer-consumer problem using semaphore concept</li> <li>b. Write the syntax and execute the following commands</li> <li>i) CAT</li> <li>ii) MKDIR</li> </ul>
<ul> <li>27. a. Implement Bankers Algorithm for Deadlock Detection using C program</li> <li>b. Write the syntax and execute the following commands</li> <li>i) RMDIR</li> <li>ii) CLEAR</li> </ul>
<ul> <li>28.a. Implement the concept of threading and synchronization using C Program</li> <li>b. Write the syntax and execute the following commands</li> <li>i) PWD</li> <li>ii) CD</li> </ul>

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29.a. Write a C program to implement round robin scheduling algorithm b. Write the syntax and execute the following commands

i) RMDIR

ii) CLEAR

30.a. Write a C program to implement First Fit Memory Allocation Method b. Write the syntax and execute the following commands i) MOVE ii) WHO