LAB CYCLE TEST – 1

Programme Name & Branch: MCA-Computer Applications

Course Name & Code: Operating Systems Lab & CA704

Exam Duration: 60 Mins   **Date & Time:** 26-05-2021 & 02.00 – 03.30 AM **Maximum Marks:** 20

ROLL NO.	Q.No
205120065	1
205120015	1
205120017	1
205120035	1
205120033	1
205120013	1
205120057	1
205120059	1

205120039	2
205120079	2
205120091	2
205120019	2
205120025	2
205120081	2
205120099	2
205120011	2

205120047	3
205120071	3
205120103	3
205120067	3
205120085	3
205120045	3
205120107	3
205120021	3
205120029	3
205120053	3

205120063	4
205120083	4
205120077	4
205120031	4
205120003	4
205120093	4
205120007	4
205120023	4
205120095	4
205120105	4
205120111	4

205120037	5
205120051	5
205120009	5
205120041	5
205120075	5
205120097	5
205120113	5
205120001	5
205120101	5

205120089	6
205120043	6
205120061	6
205120069	6
205120073	6
205120055	6
205120087	6
205120109	6
205120027	6
205120049	6

Q.No

1. (A) Write a shell script that prints the message "Good Morning", "Good After Noon", "Good Evening", or "Good night " according to the system's time   [10]

   (B) Write a C program to implement a task assignment problem for the processor based on their arrival order (Show the necessary outcomes)   [10]

2. (A) Write a shell script to find the sum of first 'N' numbers in Fibonacci series (use 'While' structure)   .

   [10]

   (B) Write a program to demonstrate the thread(s) creation and apply the same to perform the following tasks: Check whether the given number is Positive or Negative also sum the same in separately

   [10]

3. (A) Write a shell script to print a given number in reverse order and sum of the individual digits also check whether the given number is palindrome or not   [10]

   (B) Write a C program to implement a task assignment problem for the processor, based on the task importance   (Show the necessary outcomes)   [10]

4. A) Write a shell script to find the sum of first 'N' numbers in Fibonacci series (use 'While' structure)   [10]

   (B) Write a C program to a create child process and display the process ID of parent and child processes also show the Zombie property of it   [10]

5. (A) Write a shell script to accept the range values (N x M) as an integer argument and print its multiplication table.   [10]

   (B) Write a C program to implement a task assignment problem for the processor, based on the task burst time (smallest burst time task get service first- Show the necessary outcomes)   [10]

6. (A) Write a shell script to read two integer numbers and perform basic arithmetic operations based on user's choice (use 'case' structure).   [10]

   (B) Write a program to demonstrate the thread(s) creation and apply the same to perform the following tasks: Check whether the given number is Odd or Even also check the same is it Prime number or not   [10]

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