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MCA 3rd SEMESTER: ODD SEMESTER EXAMINATION 2024
MCA SEE 312 **Linux and Unix Programming (SEE)**
Time: 2:30 hours **MM:60**

Section-A

Note: Answer all questions from this section and all carry equal marks (5 marks)

Q.N	Questions	CO	BL
1	What is Multi user Operating System? Explain the architecture of UNIX/LINUX operating system.	CO1	L2
2	What do you understand by I/O redirection? Explain the concept with the help of commands. Can we redirect the Error too?	CO2	L2
3	Explain the concept of positional parameters and give their values with respect to the following command: \$set Jamia Hamdard is located in South Delhi	CO3	L3
4	How do you differentiate between a program and a process? Explain the ways in which a process can be terminated and also explain the layout of a C program.	CO4	L2

Section-B

Note: Attempt any FOUR questions and all carry equal marks (10 marks)

Q.N	Questions	CO	BL
1	a) Explain the role of the following in Shell script i) \$* ii) \$# iii) \$? iv) PS1 v) PS2 b) Write a shell script to find out the type of file (ordinary, directory, device etc)	CO2	L3
2	Write a shell script to design Kaun Banega crorepati type multiple choice question Who is the leading cricketer in terms of overall centuries in test cricket 1) Sachin Tendulkar 2) Virat Kohli 3) Rohit Sharma 4) Brian Lara 5) None of the above Prompt the user for the answer and Quiz System should instantly inform the user about the correctness of the answer.	CO5	L3

3	What do you understand by the term IPC? Explain the various types of IPC calls in UNIX operating system.	CO4	L2
4	What is Process synchronization? Write a C program to demonstrate the use of Process synchronization using wait() system call.	CO2	L3
5	Write a shell script to reverse the string 1 2 3 4 5 and adding the individual digits (total 15 in our question).	CO4	L2
6	a) What are the Shell special meta characters? How do you change the priority of a process with a command? b) Write the purpose/syntax of the following commands i) nohup command ii) kill command iii) awk command iv) grep command	CO1	L1