M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

SUBJECT: CS-504-MJP: Lab Course on CS-501-MJ (Advanced Operating System)

Max. Marks: 35
inode numbers and file types [10 Marks]
rent process and parent process Use Kill, fork, signal and sleep [20 Marks]
[5 Marks]

----- Slip 1 -----

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Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Write a C program to find file properties such as inode number, no permissions, File size, File access and modification time and so on on system call.	
Q.2)	Write a C program that catches the ctrl-c (SIGINT) signal for the fappropriate message and exits on pressing ctrl-c again.	First time and display the [20 Marks]
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Print the type of file and inode i	number where file name accepted through Command Line [10 Marks]
program. The parent process set t	a child process to run linux/ unix command or any user defined the signal handler for death of child signal and Alarm signal. If its execution in 5 second then parent process kills child process. [20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

SUBJECT: CS-504-MJP: Lab Course on CS-501-MJ (Advanced Operating System)

Max. Marks: 35

Time: 3 Hours

Q.1)	Write a C program to find whether a given files passed through command present in current directory or not.	line arguments are [10 Marks]
Q.2)	Write a C program which creates a child process and child process catches SIGINT and SIGQUIT. The Parent process send a SIGHUP or SIGINT seconds, at the end of 15 second parent send SIGQUIT signal to child and displaying message "My Papa has Killed me!!!".	signal after every 3
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Read the current directory and display the name of the files, no of files	in current directory [10 Marks]
Q.2) Write a C program to create an unnamed pipe. The child process will messages to pipe and parent process display it. Message1 = "Hello World"	write following three
Message2 = "Hello SPPU"	
Message3 = "Linux is Funny"	[20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Display all the files from current directory which are created	ed in particular month
	[10 Marks]
Q.2) Write a C program to create n child processes. When all a total cumulative time children spent in user and kernel mod	- · ·
	[20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hour	rs	Max. Marks: 35
Q.1) Write a	C Program that demonstrates redirection	of standard output to a file
		[10 Marks]
Q.2) Impler	ment the following unix/linux command ((use fork, pipe and exec system call)
ls –l wc –l		[20 Marks]
Q.3) Viva		[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a C program that redirects standard output to call).	o a file output.txt. (use of dup and open system [10 Marks]
Q.2) Implement the following unix/linux command (use ls $-1 \mid wc - l$.	e fork, pipe and exec system call) [20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Generate parent process to write unnamed pipe and will reach	d from it [10 Marks]
Q.2) Write a C program to Identify the type (Directory, character FIFO or pipe, symbolic link or socket) of given file using st	_
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a program that illustrates how to execu	ite two commands concurrently with a pipe. [10 Marks]
Q.2) Generate parent process to write unnamed pip which will read from pipe	be and will write into it. Also generate child process [20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

11me	e: 3 Hours	Max. Marks: 35
Q.1)	Write a C program to get and set the resource process	limits such as files, memory associated with a [10 Marks]
Q.2)	Write a C program that redirects standard output call).	to a file output.txt. (use of dup and open system [20 Marks]
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Write a C program that print the exit status of a terminated child process	[10 Marks]
Q.2)	Write a C program which receives file names as command line argum filenames in ascending order according to their sizes. I) (e.g \$ a.out a.txt	
		[20 Marks]
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a C program that illustr	rates suspending and resuming processes using signals [10 Marks]
	ng as an argument and return all the files that begins with that name example > ./a.out foo will return all file names that begins with foo [20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Display all the files from current directory whose size from user.	is greater that n Bytes Where n is accept [10 Marks]
Q.2)	Write a C program to find file properties such as in permissions, File size, File access and modification to system call.	
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Display all the files from current directory whose size is greater that from user	t n Bytes Where n is accept [10 Marks]
Q.2)	Write a C program which creates a child process to run linux/ unix coprogram. The parent process set the signal handler for death of child a child process does not complete its execution in 5 second then parent [20 Mag	signal and Alarm signal. If nt process kills child process
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Display all the files from current directory which are created	l in particular month
		[10 Marks]
Q.2)	Write a C program which create a child process which catched The Parent process send a sighup or sigint signal after every	3 seconds, at the end of 30 second
	parent send sigquit signal to child and child terminates my di Killed me!!!".	splaying message "My DADDY has [20 Marks]
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Read the current directory and display the name of the	e files, no of files in current directory [10 Marks]
Q.2)	Write a C program to implement the following unix system call). Your program should block the signal Ct i. Ls $-l \mid wc - l$	· · · · · · · · · · · · · · · · · · ·
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

SUBJECT: CS-504-MJP: Lab Course on CS-501-MJ (Advanced Operating System)

Max. Marks: 35

Time: 3 Hours

Q.1) Write a C program to find whether a given file is	present in current directory or not [10 Marks]
Q.2) Write a C program to create an unnamed pipe. The messages to pipe and parent process display it. Message1 = "Hello World"	The child process will write following three
Message2 = "Hello SPPU"	
Message3 = "Linux is Funny"	[20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Take multiple files as Command Line Arguments an	nd print their file type and inode number [10 Marks]
Q.2) Implement the following unix/linux command (use following ls $-1 \mid wc - l$	ork, pipe and exec system call) [20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

SUBJECT: CS-504-MJP: Lab Course on CS-501-MJ (Advanced Operating System)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a C program that illustrates suspending and	l resuming processes using signals
	[10 Marks]
Q.2) Write a C program to Identify the type (Director	y, character device, Block device, Regular file
FIFO or pipe, symbolic link or socket) of given f	ile using stat() system call.
	[20 Marks]
Q.3) Viva	[5 Marks]

----- Slip 20 -----

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Read the current directory and display the name of the	he files, no of files in current directory [10 Marks]
Q.2) Write a C program which receives file names as c filenames in ascending order according to their sizes	
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a C Program that demonstrates redirection of	f standard output to a file [10 Marks]
	[20 1/201200]
Q.2) Write a C program to implement the following unsystem call). Your program should block the signal i. ls -l wc -l	
	[20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Write a C program to find whether a given file is present in current direct	ory or not [10 Marks]
Q.2)	Write a C program to Identify the type (Directory, character device, Block FIFO or pipe, symbolic link or socket) of given file using stat() system can	_
Q.3)	Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

SUBJECT: CS-504-MJP: Lab Course on CS-501-MJ (Advanced Operating System)

Max. Marks: 35

Time: 3 Hours

Q.1)	Print the type of file and inode number where file name accepted through Command Line [10 Marks]
Q.2)	Write a C program which creates a child process to run linux/ unix command or any user defined program. The parent process set the signal handler for death of child signal and Alarm signal. If a child process does not complete its execution in 5 second then parent process kills child process [20 Marks]
Q.3)	Viva [5 Marks]

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Practical Examination (From 2023-2024)

Time:	3 Hours	Max. Marks: 35
Q.1) V	1) Write a C Program that demonstrates redirection of standard output to a file	
		[10 Marks]
	Write a C program that redirects standard output to a file call).	output.txt. (use of dup and open system
		[20 Marks]
0.2) 1	Live	[5 Mowles]
Q.3) V	viva	[5 Marks]