M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3	Hours	Max. Marks: 35
Q.1) Tak	ke multiple files as Command Line Arguments and print their inode	numbers and file types [10 Marks]
mal	ite a C program to send SIGALRM signal by child process to parent packe a provision to catch the signal and display alarm is fired.(Use Kastem call)	
Q.3) Viv	⁷ a	[5 Marks]

M.Sc.(Computer Science) Sem-I

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, permissions, File size, File access and modification time and so on system call.	
Q.2)	Write a C program that catches the ctrl-c (SIGINT) signal for the appropriate message and exits on pressing ctrl-c again.	first time and display the [20 Marks]
Q.3)	Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time:	3 Hours Max. Marks: 35
Q.1)	Print the type of file and inode number where file name accepted through Command Line [10 Marks]
p	Vrite a C program which creates a child process to run linux/ unix command or any user defined rogram. The parent process set the signal handler for death of child signal and Alarm signal. It child process does not complete its execution in 5 second then parent process kills child process [20 Marks]
Q.3) V	iva [5 Marks]

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Practical Examination (From 2023-2024)

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

l line arguments are
[10 Marks]
s a signal SIGHUP, signal after every 3 child terminates by
[20 Marks]
[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) Read the current directory and display the name of the files, no of files in cu	nrrent directory [10 Marks]
Q.2) Write a C program to create an unnamed pipe. The child process will write messages to pipe and parent process display it.	e following three
Message1 = "Hello World"	
Message2 = "Hello SPPU"	
Message3 = "Linux is Funny"	[20 Marks]
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Max. Marks: 35
eated in particular month
[10 Marks]
all n child processes terminates, Display
[20 Marks]
[5 Marks]
1

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 standard outp	•
	[10 Marks]
Q.2) Implement the following unix/linux command (use fork, pipe a	nd 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 call).	t to a file output.txt. (use of dup and open system [10 Marks]
Q.2) Implement the following unix/linux command (u ls $-1 \mid wc \mid -1$.	use 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 re-	ad from it [10 Marks]
Q.2) Write a C program to Identify the type (Directory, charact FIFO or pipe, symbolic link or socket) of given file using s	_
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 exec	eute two commands concurrently with a pipe. [10 Marks]
Q.2) Generate parent process to write unnamed pi which will read from pipe	pe 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)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Write a C program to get and set the resource process	re limits such as files, memory associated with a [10 Marks]
Q.2)	Write a C program that redirects standard outp call).	ut 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	b.txt c.txt,) [20 Marks]
Q.3)	Viva	[5 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 illustrates suspending and resum	ning processes using signals [10 Marks]
Q.2) Write a C program that a string as an argument and return in the current directory. For example > ./a.out foo will r	•
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 who from user.	se size is greater that n Bytes Where n is accept [10 Marks]
Q.2) Write a C program to find file properties such permissions, File size, File access and modific system call.	th as inode number, number of hard link, File ation time and so on of a given file using stat() [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 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 corprogram. 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 in particul	ar month
		[10 Marks]
Q.2)	Write a C program which create a child process which catch a signal signal after every 3 seconds	, at the end of 30 second
	parent send sigquit signal to child and child terminates my displaying me Killed me!!!". [2	ossage My DADDY nas Marks]
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

e: 3 Hours	Max. Marks: 35
Read the current directory and display the name of the files, no of	files in current directory [10 Marks]
system call). Your program should block the signal Ctrl-C and Ctr	
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) Write a C program to find whether a given file is present in current of	lirectory or not [10 Marks]
Q.2) Write a C program to create an unnamed pipe. The child process we messages to pipe and parent process display it. Message1 = "Hello World" Message2 = "Hello SPPU" Message3 = "Linux is Funny"	rill write following three [20 Marks]
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Take multiple files as Command Line Arguments and pr	int their file type and inode number [10 Marks]
Q.2) Implement the following unix/linux command (use fork, planed by $-1 \mid wc - 1$	pipe and exec system call) [20 Marks]
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)

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

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M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Read the current directory and display the name of the files, no of fil	es in current directory [10 Marks]
Q.2)	Write a C program which receives file names as command line are filenames in ascending order according to their sizes. I) (e.g \$ a.out a	
Q.3)	Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Write a C Program that demonstrates redirection of standard output to a	a file [10 Marks]
Q.2)	Write a C program to implement the following unix/linux command system call). Your program should block the signal Ctrl-C and Ctrl-\ signal i. ls $-l \mid wc - l$ [20 Mark	anal during the execution.
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 to find whether a given file is pr	resent in current directory or not
	[10 Marks]
Q.2) Write a C program to Identify the type (Directory, FIFO or pipe, symbolic link or socket) of given file	_
2 2 2 3 F F 3, 2, 2, 22 22 22 22 22 22 22 22 22 22 22	[20 Marks]
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time	e: 3 Hours	Max. Marks: 35
Q.1)	Print the type of file and inode number where file name accepted through	n Command Line [10 Marks]
Q.2)	Write a C program which creates a child process to run linux/ unix comm program. The parent process set the signal handler for death of child sign a child process does not complete its execution in 5 second then parent pro	nal and Alarm signal. If occess kills child process
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 demonstra	ates redirection of standard output to a file
	[10 Marks]
	tandard output to a file output.txt. (use of dup and open system
call).	[20 Marks]
Q.3) Viva	[5 Marks]