

CS504 MJP AOS Slips

MSc(computer Science) (Savitribai Phule Pune University)



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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	print their inode numbers and file types [10 Marks]
Q.2) Write a C program to send SIGALRM signal by child possible a provision to catch the signal and display alarm system call)	
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 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]

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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)	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)

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 to find whether a given files passed through present in current directory or not.	command line arguments are
		[10 Marks]
Q.2)	Write a C program which creates a child process and child process SIGINT and SIGQUIT. The Parent process send a SIGHUP or	_
	seconds, at the end of 15 second parent send SIGQUIT signal to	
	displaying message "My Papa has Killed me!!!".	[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) Read the current directory and display the name of the files, no of file	les in current directory [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"	vill 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 in particular	r month [10 Marks]
		[10 Marks]
Q.2)	Write a C program to create n child processes. When all n child process	ses terminates, Display
	total cumulative time children spent in user and kernel mode	[20 Marks]
		[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 demonstrates redirection of standard of	output to a file
	[10 Marks]
Q.2) Implement the following unix/linux command (use fork, pipe	e and exec system call)
$ls - l \mid wc - l$	[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 $ls - l \mid wc - l$.	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 a	and will read from it [10 Marks]
Q.2) Write a C program to Identify the type (Director FIFO or pipe, symbolic link or socket) of given to	
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 execute to	two commands concurrently with a pipe. [10 Marks]
Q.2) Generate parent process to write unnamed pipe a which will read from pipe	nd 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	e limits such as files, memory associated with a [10 Marks]
Q.2)	Write a C program that redirects standard outpool 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: 3 Hours	Max. Marks: 35	
Q.1) Write a C program that print the exit status of a terminated child proce	ess [10 Marks]	
Q.2) Write a C program which receives file names as command line arg filenames in ascending order according to their sizes. I) (e.g \$ a.out a.		
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 resur	ming processes using signals [10 Marks]
Q.2) Write a C program that a string as an argument and retuin the current directory. For example > ./a.out foo will	_
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

3 Hours		Max. Marks: 35
Q.1) Display all from user.	the files from current directory whose siz	ze is greater that n Bytes Where n is accept [10 Marks]
	s, File size, File access and modification	inode number, number of hard link, File 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
	Display all the files from current directory whose size is greater that from user	n Bytes Where n is accept [10 Marks]
Q.2)	Write a C program which creates a child process to run linux/ unix comprogram. The parent process set the signal handler for death of child so a child process does not complete its execution in 5 second then parent [20 Main	signal and Alarm signal. If process kills child process
Q.3)	Viva	[5 Marks]

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from current directory which are created in particular month
[10 Marks]
which create a child process which catch a signal sighup, sigint and sigquit. send a sighup or sigint signal after every 3 seconds, at the end of 30 seconds signal to shild and shild terminates my displaying massage "My DADDY has
signal to child and child terminates my displaying message "My DADDY has [20 Marks]
[5 Marks]
gram ocess

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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]
	following unix/linux command (use fork, pipe and exec ck the signal Ctrl-C and Ctrl-\ signal during the execution. [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 to find whether a given file is pr	-
	[10 Marks]
Q.2) Write a C program to create an unnamed pipe. The	e child process will write following three
messages to pipe and parent process display it.	
Message1 = "Hello World"	
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 Argume	ents and print their file type and inode number [10 Marks]
Q.2) Implement the following unix/linux command $ls - l \mid wc - l$	(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) Write a C program that illustrates suspending and res	suming processes using signals [10 Marks]
Q.2) Write a C program to Identify the type (Directory, cl FIFO or pipe, symbolic link or socket) of given file u	_
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	e files, no of files in current directory
	[10 Marks]
Q.2) Write a C program which receives file names as co	
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]

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Practical Examination (From 2023-2024)

ne: 3 Hours	Max. Marks: 35
) Write a C Program that demonstrates redirection of standard outpu	t to a file [10 Marks]
) Write a C program to implement the following unix/linux comm	and (use fork, pipe and exec
system call). Your program should block the signal Ctrl-C and Ctrl-	-\ signal during the execution.
	Marks]
) Viva	[5 Marks]
<u> </u>	Write a C Program that demonstrates redirection of standard output. Write a C program to implement the following unix/linux comm system call). Your program should block the signal Ctrl-C and Ctrl-i. ls -1 wc -1

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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	y or not
		[10 Marks]
0.2)	Write a C program to Identify the type (Directory, character device, Block of	device. Regular file.
()	FIFO or pipe, symbolic link or socket) of given file using stat() system call.	,,
	The or paper, of moone and or occurrent or given and woning sound, special cannot	[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	number where file name accepted through Command Line [10 Marks]
program. The parent process se	es a child process to run linux/ unix command or any user defined et the signal handler for death of child signal and Alarm signal. If the its execution in 5 second then parent process kills child process [20 Marks]
Q.3) Viva	[5 Marks]

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Time	e: 3 Hours	Max. Marks: 35
Q.1)	Write a C Program that demonstrates redirection of standard output to a file	
		[10 Marks]
Q.2)	Write a C program that redirects standard output to a file call).	output.txt. (use of dup and open system
	can).	[20 Marks]
Q.3)	Viva	[5 Marks]