Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 **UNIX Programming**

Max. Marks: 100 Time: 3 hrs.

		Module-1	
1	a.		(10 Marks)
	b.	Explain the following commands:	
			(10 Marks)
		OR	
2	a.	Zapiani reactives of visiti.	(10 Marks)
	b.	Explain basic file types in UNIX. What is relative and absolute pathname?	(10 Marks)
,		Module-2	
3	a.		(10 Marks)
	b.	Explain 3 standard redirection files with respect to UNIX OS.	10 Marks)
		OR	
4	a.		10 Marks)
	b.		
		i) Currents users of system ii) List of files iii) Today's date	
		iv) Process status v) Contents of a file.	10 Marks)
		Module-3	
5	a.	What is the advantage of locking files? Explain mandatory and advisory lock advisory lock is considered safe? What are the drawbacks of advisory lock? Explain	
			1. (12 Marks)
	b.		(08 Marks)
			(00 Marks)
		OR	
6	å.	Discuss how a C program is started and terminated in various ways along with	h suitable
		diagram.	(10 Marks)
	b.	Write a C/C++ program using setjmp and longjmp to show their effect on various v	ariables.
			(10 Marks)
		Module-4	
7	0	What is Stream Pipe? Explain it with program. How Stream pipe is better than pipe	.0
1	a.		(10 Marks)
	b.		(10 Marks)
			(10 1111110)
		OR	
100	-0	Define Message queue. Discuss how it is useful in IPC.	(10 Manha)
8	a.		(10 Marks)
8	b	What are Pipes? What are its limitations? Write a program to send data from parent over a pipe.	t to child

1 of 2

Module-5

- a. Discuss how error logging is done by daemon process with suitable diagram. (10 Marks)
 - b. Discuss the working of sigprocmask API. Explain all parameters of API with program.

(10 Marks)

OR

10 a. What is Daemon process? Explain coding rules and error logging.

(10 Marks)

b. Explain the prototypes of following APIs:

i) Signal ii) Kill iii) alarm

iv) sigaction.

(10 Marks)

2 of 2