

**CONTINUOUS INTERNAL EVALUATION- 2**

Dept: CSE	Sem / Div: 5 / A & B	Sub: UNIX PROGRAMMING	S Code: 18CS56
Date: 03 /12/2020	Time: 2:30-4:00 pm	Max Marks: 50	Elective: N
Note: Answer any 2 full questions, choosing one full question from each part.			

Q N	Questions	Marks	RBT	COs
<b>PART A</b>				
1	a Explain the following API's with prototypes: i) open ii) lseek iii) close iv) fcntl v) read	10	L2	CO3
	b Explain in detail with prototypes the C functions for memory allocation. Mention the rules to change the resource limits.	10	L3	CO3
	c With a prototype explain wait and waitpid functions.	5	L2	CO3
<b>OR</b>				
2	a Explain directory and device file APIs.	10	L2	CO3
	b Explain stat and fstat function to retrieves the file attributes of a given file.	5	L2	CO3
	c With separate programming examples, explain fork and vfork functions.	10	L2	CO3
<b>PART B</b>				
3	a Explain signal mask sigprocmask() API.	5	L3	CO5
	b Briefly explain the kill() API and alarm() API.	10	L2	CO5
	c Explain the sigaction() function by giving the prototype and discuss its features.	10	L2	CO5
<b>OR</b>				
4	a Explain POSIX.1b and Interval timer with prototype.	10	L2	CO5
	b Explain UNIX kernel support for signals.	5	L2	CO5
	c What is a signal? Discuss any five POSIX defined signals. Explain how to set up a signal handler.	10	L3	CO5

