## Vivekananda College of Engineering & Technology, Puttur

[A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]
Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

			CCE	14/10/2024
CRM08	Rev 115	(2024 rev)	CSE	14/10/2024
CRMOO	1101		and the second s	

## CONTINUOUS INTERNAL EVALUATION - 1

Dept: CSE/AI/CD	Sem / Div: 3 <sup>rd</sup>	Sub: Operating Systems	S Code: BCS303
Date:19/10/24	Time: 9:30-11:00	Max Marks: 50	Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

Q	N	Questions	Marks	RBT	CO's
		PART A			
1	a	Explain the dual mode operation of operating system with a neat diagram	n 10	L2	CO1
	b	Explain the services provided by Operating system	10	L-2	€01
	c	Illustrate the difference between multiprogramming armultitasking	1d 5	L2	CO1
	1	OR			
2	a	Explain the types of Computer system architecture	10	L2	CO1
A COLUMN TO STATE OF THE PARTY OF	t	Explain the concepts of Nonvirtual and Virtual machin with the help of a neat diagram	ne 10	L2	CO1
	(	Explain different system calls with example	5	L2	CO1
		PART B			
	3 3	a Explain different states of a process and process contr block with the suitable diagrams.	ol 8	L2	CO2
AND THE PROPERTY OF THE PROPER	The state of the s	b Explain average waiting time and turnaround time for the following snapshot of processes using i) FCFS ii) SRTF iii) preemptive priority iv) Preemptive Round Robin with Time Quantum=3ms with the example give below.	12 en	L2	CO2

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1 1	1			The state of the s			
	Process id	Arrival time	Burst time	Priority			
	P1	0	10	4			1
	P2	3	5	2			
	P3	and the commence of the contract of the contra	6	6			
A commercial control of the control	P4		4	3			
c	c Explain the concept of critical-section.					L2	CO3
			OR				
4 a	Explain Inter	process comm	nunication		. 8	L2	CO2
	Explain the		Multithreadi	ng models and diagram.	12	L2	CO2
c	c Explain the concept of Peterson's Solution				5	L2	CO3

Prepared by:

Prof. Krishna Mohan AJ/ Prof. Mohan K