SRN					**	
			_	_	_	-



PES University, Bengaluru (Established under Karnataka Act No. 16 of 2013)

UE18EC315

DECEMBER 2021: END SEMESTER ASSESSMENT B Tech 5th SEMESTER UE18EC315 – Real Time Operating Systems

		Time: 3 Hrs Answer All Questions Max Marks: 100									
1	a)	Describe different goals of an operating system.	10								
'	b)	What is the need of different types of OS ?									
	-	What are the Advantages of Microkernel?									
	c)	what are the Advantages of Microkether:	5								
2 a)		Describe role of any 5 fields of process control block.									
	b)	Why scheduling of process is required ? What are Long-, Medium-, and Short-Term Schedulers ?									
	c)	What is mailbox and how does it works?									
3	a)	Discuss different criteria used for comparing CPU-scheduling algorithms	10								
0	b)	Describe how round robin scheduling works.	5								
_	c)	What is aging technique to avoid starvation of a low priority process ?	5								
			2x5								
	a)	Explain the terms with respect to memory management i) Relocation ii) Protection iii) Sharing iv) Virtual memory v) Physical Address									
	b)	the state of the s									
	c)	Fill in the blanks a. For fixed partition size of each region is b fragmentation occurs for dynamic partition. c placement algorithm chooses the block that is closest in size to the request. d. Page frame resides on e. Address translation generate address from virtual address.	5								
5	a)	Explain how dispatcher works in association with ISR.									
	b)										
	c)	and the state of t									