Course Code: 20CS4T07

BONAM VENKATA CHALAMAYYA ENGINEERING COLLEGE::ODALAREVU (AUTONOMOUS)

II-B.Tech II-Semester Supplementary Examinations (BR20), JULY - 2022 OPERATING SYSTEMS (CSE, CSE(AI&DS)) Time: 3 hours

Max. Marks: 70 Question Paper consists of FIVE units, each carrying 14 marks

	Each unit has TWO questions; either of them should be answered All parts of a question must be answered at one place	
1.a)	Define Operating System. Explain different functions of Operating System.	(7M)
1.b)	Explain briefly about Operating System Structure.	(7M)
	(OR)	
1.c)	Explain various services of Operating System.	(7M)
1.d)	Discuss about Operating System Interface.	(7M)
2.a)	Define a Process. Explain about process scheduling in detail.	(7M)
2.b)	Write short notes on Multi-threading issues in Operating Systems in detail.	(7M)
	(OR)	
2.c)	Explain in detail about critical section problem.	(7M)
2.d)	Write Short notes on Semaphores in detail.	(7M)
3.a)	Briefly discuss about Page replacement in detail.	(14M)
	(OR)	
3.c)	Briefly discuss about Continuous Memory allocation?	(7M)
3.d)	Define Virtual Memory. Explain importance of Virtual memory	(7M)
4.a)	Write short notes on Banker's algorithm to avoid deadlock in Operating system.	(14M)
	(OR)	
4.c)	Explain about resources where deadlock arises in Operating System.	(7M)
4.d)	Elaborate Deadlock detection and recovery in detail.	(7M)
5.a)	Explain various Disk Storage Structures in detail.	(14M)
	(OR)	
5.c)	Briefly discuss about Files, Directories and File System implementation in Operating Systems.	(14M)

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Page 1 of 1