R16

Code No: **R1642051**

Set No. 1

IV B.Tech II Semester Advanced Supplementary Examinations, Aug/Sep - 2022 DISTRIBUTED SYSTEMS

(Common to Computer Science and Engineering and Information Technology)
Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any FOUR questions from Part-B *****

PART-A (14 Marks) outed system.

1.	a)	List out challenges of distributed system.	[3]
	b)	What is meant by interprocess Communication? Give the characteristics.	[3]
	c)	How does events get notified?	[2]
	d)	Define process. Compare it with thread.	[2]
	e)	What is meant by distributed file system? Give its advantages over traditional file system.	[2]
	f)	Define transaction give an example.	[2]
		$\underline{\mathbf{PART-B}} \ (4x14 = 56 \ Marks)$	
2.	a)	What is Distributes system? Give the Characteristics of distributed system.	[7]
	b)	Present the fundamental models in system models.	[7]
3.	a)	What is UDP? Explain UDP datagram communication.	[7]
	b)	What are sockets? How does they used in IPC?	[7]
4.	a)	Explain communication between distributed objects.	[7]
	b)	How RMI is implemented in Java? Illustrate with a code snippet.	[7]
5.	a)	Explain operating system layer in distributed system.	[7]
	b)	Describe the process of creation of a new process along with the process life cycle.	[7]
6.	a)	Explain file service architecture with examples?	[7]
	b)	Focus on the applications of Napster theory in distributed file system.	[7]
7.	a)	Explain concurrency control in distributed transaction.	[7]
	b)	What is transaction recovery in distributed system? How can it be done?	[7]