Code No: 158AU JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech IV Year II Semester Examinations, September - 2022 DISTRIBUTED SYSTEMS (Common to CSE, IT)

Time: 3 Hours

Answer any five questions	
All questions carry equal marks	

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Max.Marks:75

1.a) b)	Explain the trends in distributed systems. Explain the architectural model of distributed system.	[7+8]
2.a) b)	Elaborate the issues for Design of distributed systems. What are the characteristics of interprocess communication?	[7+8]
3.a) b)	Explain the functions provided by operating system. Explain Invocations between address spaces.	[7+8]
4.	With a neat diagram, explain file service architecture.	[15]
5.a) b)	Explain in detail about Routing Overlays.	[8+7]
6.a) b)	Explain the Cristian's method for synchronizing clocks. Explain distributed mutual exclusion.	[8+7]
7.a) b)	What is a lock? Explain the locking rules for nested transactions. Describe the operations for two-phase commit protocol.	[8+7]
8.a) b)	Explain the architectural model for the management of replicated data. Discuss whether message passing or DSM is preferable for fault-tolerant application	ions. [7+8]

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