Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: 2020-21 B. Tech. Computer Science & Engg.	**School of Technology**	**Department: Computer Science & Engg.**
Course Code:CST401	**Course Title: Distributed and Parallel Computing**	**Semester : VII**
Day : **Date :**	**Re-End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Question Paper

Instructions: 1) All Questions are compulsory.
2) Draw neat diagrams wherever necessary.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any two)**			
a)	Describe in detail the goals of a distributed systems.	8	L3	CO1
b)	Discuss the architecture and advantages and disadvantages of client-server based centralized distributed systems.	8	L4	CO2
c)	Justify the importance of multithreaded server and client in the context of distributed systems.	8	L3	CO3
Q.2	**Answer the following (any two)**			
a)	Describe the steps involved in application level multicast communication.	8	L3	CO1
b)	Explain distributed mutual exclusion algorithm for accessing a shared resource in distributed systems.	8	L3	CO2
c)	Discuss the use of Lamport's logical clock for synchronization of events in distributed systems.	8	L2	CO3
Q.3	**Answer the following (any two)**			
a)	Discuss parallel computer memory architectures along with advantages and disadvantages of each.	9	L4	CO4
b)	Explain the role of message brokers in message oriented communication.	9	L4	CO2
c)	Describe the concept of parallel virtual machine.	9	L3	CO4

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