PRESIDENCY UNIVERSITY

BENGALURU

Make Up Examinations – December 2025
Date: 26 – 12- 2025   **Time:** 9:30am – 12:30pm

School: SOCSE	**Program:** BTECH	
Course Code: CSE2052	**Course Name:** DISTRIBUTED SYSTEM	
Semester: MK	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	20	20	20	20	20

Instructions:

    (i) Read all questions carefully and answer accordingly.

    (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.   **10Q x 2M=20M**

1.	Write short note on HTTP.	2 Marks	L1	CO2
2.	Write short note on SMTP.	2 Marks	L1	CO2
3.	Describe unmarshalling in distributed system.	2 Marks	L1	CO2
4.	Describe message passing model in Distributed System.	2 Marks	L1	CO2
5.	Write short note on Shared Memory Model in Distributed System.	2 Marks	L1	CO2
6.	Describe marshalling in Distributed System	2 Marks	L2	CO2
7.	What is public-subscribe model?	2 Marks	L1	CO2
8.	Write short note on RPC model in Distributed System.	2 Marks	L1	CO2
9.	Write short note on FTP	2 Marks	L1	CO2
10.	Write short note on UDP	2 Marks	L1	CO2

Part B

Answer the Questions.   **Total Marks 80M**

11.	a.	Write the advantages and disadvantages of distributed system.	10 Marks	L2	CO1
	b.	Describe resource sharing in Distributed System.	10 Marks	L1	CO1
Or					
12.	a.	Describe the different trends in Distributed System.	10 Marks	L1	CO1
	b.	Describe the design issues of Distributed System.	10 Marks	L2	CO1

13.	a.	How does Napster file system works?	10 Marks	L2	CO3
	b.	Explain the characteristics of peer to peer system.	10 Marks	L1	CO3
Or					
14.	a.	Describe file accessing models in Distributed system.	10 Marks	L1	CO3
	b.	Differentiate structured and unstructured peer to peer system.	10 Marks	L2	CO3

15.	a.	Describe external synchronization and internal synchronization.	10 Marks	L1	CO4
	b.	Explain the ring based algorithm for mutual exclusion	10 Marks	L2	CO4
Or					
16.	a.	Describe the importance of Synchronization in Distributed Systems.	10 Marks	L1	CO4
	b.	Explain various synchronization techniques in Distributed System.	10 Marks	L1	CO4

17.	a.	What are the main functions of distributed process management?	10 Marks	L1	CO5
	b.	How process migration is classified?	10 Marks	L1	CO5
Or					
18.	a.	What are the rules of Load Balancing Operation ?	10 Marks	L1	CO5
	b.	Explain deadlock detection techniques in distributed system.	10 Marks	L2	CO5