



R18 Regulation

Subject code: 2E6EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, July 2024

DISTRIBUTED SYSTEMS

(CSE)

Maximum Marks: 70

Date:19.07.2024 Duration: 3 hours

- Note:
- 1.This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks		(10X2M=20 Marks)	Bloom's Tx	CO
1	Define distributed system.		L1	CO1
2	Why do you need distributed system?		L2	CO1
3	Define clock.		L1	CO2
4	What is asynchronization?		L1	CO2
5	How callback is implemented in RMI.		L2	CO3
6	Draw the Middleware Architecture.		L2	CO3
7	Define Global Name Service.		L2	CO4
8	What is Server caching?		L1	CO4
9	Define Transactions.		L1	CO5
10	Define Failure atomicity.		L1	CO5

Part-B

Answer All the following questions.		(5X10M=50Marks)		CO
11	Explain about the advantages and disadvantages of distributed systems. [10]		L3	CO1
OR				
12	Discuss briefly about the characterization of distributed systems and how resource sharing and the web are accessing. [10]		L1	CO1
13	Discuss in detail about Lamport algorithm in logical clock. [10]		L2	CO2
OR				
14	Explain briefly about NTP and Berkeley physical clock algorithms. [10]		L3	CO2
15	Discuss the following: a) UDP datagram communication b) TCP stream communication [5+5]		L1	CO3
OR				

16	What is marshalling? Explain the marshalling operation in CORBA. [10]	L1	CO3
17	Discuss briefly in distribution of processes in the Andrew File System. [10]	L1	CO4
	OR		
18	Describe briefly about Iterative navigation. [10]	L2	CO4
19	Explain the following: a) Two-version locking b) Hierarchic locks [5+5]	L2	CO5
	OR		
20	Briefly explain about Optimistic concurrency control. [10]	L1	CO5