



R18 Regulation

Subject code:2E6EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, December 2024

Distributed Systems

(CSE)

Maximum Marks: 70

Date:10.01.2025

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)		CO	Bloom Tx
1	List the distributed systems challenges?	1	L1
2	What are the three components of security?	1	L1
3	Define vector clock?	2	L1
4	What is a multicast communication?	2	L1
5	What are the benefits of programming with interface in DS?	3	L1
6	List the action of remote reference module.	3	L1
7	Define Global Name Service.	4	L1
8	what is Server caching?	4	L1
9	How Lock implementation is done?	5	L1
10	Define Dead lock?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain briefly about the general examples of distributed system? [10M]	1	L2
OR			
12	Explain about the challenges of distributed system? [10M]	1	L2
13	Discuss in detail about vector clock algorithm of logical clock? [10M]	2	L2
OR			
14	Explain central server and ring based Algorithms for mutual exclusion. [10M]	2	L2
15	Discuss the implementation of RMI. [10M]	3	L2
OR			
16	Explain about Remote Procedure call in detail. [10M]	3	L2
17	Explain about the File service architecture? [10M]	4	L2
OR			
18	Discuss in detail about Sun Network File System architecture? [10M]	4	L2
19	Describe about locking rules in nested transaction? [10M]	5	L2
OR			
20	Explain about deadlock avoidance and deadlock prevention? [10M]	5	L2