



R18 Regulation

Subject code:2E6EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, May 2025

DISTRIBUTED SYSTEMS

(CSE)

Maximum Marks: 70

Date: 16.06.2025

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.
 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)

		Marks	CO	BTL
1	Define distributed system?	2M	1	L1
2	Why do you need distributed system?	2M	1	L1
3	Define clock?	2M	2	L1
4	What is distributed garbage collection?	2M	2	L1
5	What is marshalling and unmarshalling?	2M	3	L1
6	What are the approaches used in data representation?	2M	3	L1
7	Define Sequential consistency	2M	4	L1
8	Define Immutable data?	2M	4	L1
9	How Lock implementation is done?	2M	5	L1
10	Define Dead lock?	2M	5	L1

Part-B

Answer All the following questions.

(5X10M=50Marks)

		Marks	CO	BTL
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 lamport algorithm in logical clock.	10M	2	L2
	OR			
14	Explain in detail about Cristian's algorithm.	10M	2	L2
15	Describe CORBA RMI and its services.	10M	3	L2
	OR			
16	Discuss in detail about client server communication.	10M	3	L2
17	Explain about the Internet Domain Name System.	10M	4	L2
	OR			
18	Describe about DNS resource records.	10M	4	L2
19	Explain about nested transactions.	10M	5	L2
	OR			
20	Discuss in detail about how locks are implemented in transaction.	10M	5	L2