



R18 Regulation

Subject code:2E6EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VI Semester Supplementary Examinations, June/July 2023

Distributed Systems
(Computer Science and Engineering)

Maximum Marks: 70

Date:22.06.2023 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)

- 1 Define distributed system?
- 2 Why do you need distributed system?
- 3 Define clock.
- 4 What is distributed garbage collection?
- 5 What is unmarshalling?
- 6 What are the approaches used in data representation?
- 7 Define Flat file service.
- 8 What are the components of file service.
- 9 Define Transactions?
- 10 Define Failure atomicity?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain briefly about the general examples of distributed system? [10]
OR
- 12 Explain about the challenges of distributed system? [10]
- 13 Discuss in detail about lamport algorithm in logical clock. [10]
OR
- 14 Explain briefly about distributed mutual exclusion. [10]
- 15 Discuss: a) UDP datagram communication b) TCP stream communication [5+5]
OR
- 16 What is marshalling? Explain the marshalling operation in CORBA? [10]
- 17 Explain about the Internet Domain Name System. [10]
OR
- 18 Describe about DNS resource records. [10]
- 19 Describe about locking rules in nested transaction. [10]
OR
- 20 Explain about deadlock avoidance and deadlock prevention. [10]