



Regulation R18

Subject code: 2E6EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, January 2023

Distributed Systems

(Computer Science and Engineering)

Maximum Marks: 70

07-01-2023

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 Mutual Exclusion.
- 4 What is a multicast communication?
- 5 What are the benefits of programming with interface in DS?
- 6 List the action of remote reference module.
- 7 Define Sequential consistency
- 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 about distributed mutual exclusion. [10]
- 15 Discuss the implementation of RMI. [10]
OR
- 16 Explain about Remote Procedure call in detail. [10]
- 17 Discuss in details about Global Name Service? [10]
OR
- 18 Discuss in detail about Sun Network File System architecture? [10]
- 19 Discuss concurrency control in distributed transactions. [10]
OR
- 20 Write about time stamp ordering? [10]

