

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VII COMPUTER : WINTER- 2022
SUBJECT : DISTRIBUTED SYSTEMS

Day : Wednesday

Time : 02:30 PM-05:30 PM

Date : 07-12-2022

W-13666-2022

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
 - 3) Use of non-programmable calculator is **allowed**.
 - 4) Assume suitable data **WHEREVER** necessary.
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Q.1 Explain the Architectural Models of Distributed Systems. Explain four different ways through which Client-Server models can be modified. **(10)**

OR

Q.1 Discuss the need of Distributed Systems. List Pros and Cons of Distributed Systems. **(10)**

Q.2 Discuss request reply protocols in detail. List the two design issues for RMI. **(10)**

OR

Q.2 Discuss MPUI remote method Invocation and object in detail. **(10)**

Q.3 Discuss napster and its legacy in detail. **(10)**

OR

Q.3 Discuss LDAP. Explain in detail how name resolution is achieved. **(10)**

Q.4 Discuss mutual exclusion concept toward Distributed Systems. Also explain any mutual exclusion algorithm. **(10)**

OR

Q.4 Discuss why clock synchronization is necessary. Explain issues related to clock synchronization. **(10)**

Q.5 Discuss task assignment approach and its goal in detail. **(10)**

OR

Q.5 Discuss process scheduling and its technique. **(10)**

Q.6 Discuss pervasive computing environments with example. **(10)**

OR

Q.6 Explain Active and Passive Replication in Distributed Systems. **(10)**
