

Code No: F-13966/N/AICTE

**FACULTY OF ENGINEERING**  
**B.E. (CSE) VII - Semester (AICTE) (Main) (New) Examination, February/ March 2024**

**Subject: Distributed Systems**

**Time: 3 Hours**

**Max. Marks: 70**

**Note:** (i) First question is compulsory and answer any four questions from the remaining six questions. Each question carries 14 Marks.  
(ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.  
(iii) Missing data, if any, may be suitably assumed.

1. ~~a) State the characteristics of Distributed systems.~~  
b) What is Virtualization?  
~~c) What is Auto Mounting?~~  
~~d) List out any four CORBA services.~~  
~~e) What is Name Space?~~  
~~f) What is Thread Scheduling?~~  
~~g) Define fault tolerance.~~
2. ~~a) Describe the Architectural models of distributed systems.~~  
~~b) Explain in detail the goals of distributed systems.~~
3. ~~a) Write about Distributed Commit.~~  
~~b) Explain about reliable client-server communication.~~
4. ~~a) What are election algorithms? Explain Bully algorithm.~~  
~~b) Explain about Clock-Synchronization algorithm.~~
5. a) Explain about Synchronization in Distributed Coordination based systems.  
~~b) Differentiate between HIVE and PIG.~~
6. ~~a) Write a note on NFS.~~  
~~b) Write about the two types of HTTP connections.~~
7. ~~a) Describe Apache Web Server.~~  
~~b) Discuss Web Proxy Caching in distributed web-based systems.~~