

Time: 3 Hours

[100 Marks]

Note

- Question 1 is **compulsory**
- Answer any **four** of the remaining **six** questions
- All questions carry **equal** marks

Q1

- (A) Explain different distributed computing model with detail [10]
- (B) What is a Service Oriented Architecture (SOA)? Explain in detail [10]

Q2

- (A) What is Stub explain the implementation of stub in RPC Mechanism [10]
- (B) Describe the logical clock and explain the issue in detail [10]

Q3

- (A) What is Cloud computing? Explain the principle of cloud computing. [10]
- (B) Explain the Load balancing model with detail [10]

Q4

- (A) What is clock synchronization? Explain the algorithms used in a distributed computing [10]
- (B) When the critical Section implementation? How to implement Mutual Exclusion algorithm? [10]

Q5

- (A) What is Consistency Model? Explain in detail. [10]
- (B) Describe the Resource Management and Process management in distributed system. [10]

Q6**Write a Short Note (Any four)****[20]**

- | | |
|---|---------------------------|
| a) Grid computing | b) Data Security in Cloud |
| c) Distributed Share Memory | d) IPC in MACH |
| e) Local procedure call & Remote procedure call | |

Q7

- (A) Explain the Message Passing Mechanism in the IPC [10]
- (B) Explain the Difference techniques in distributed file system [10]